Recent years have brought minority-owned businesses in the United States unprecedented opportunities-as well as new and significant risks. Civil rights activists have long argued that one of (5) the principal reasons why Blacks, Hispanics, and other minority groups have difficulty establishing themselves in business is that they lack access to the sizable orders and subcontracts that are generated by large companies. Now Congress, in appar-(10) ent agreement, has required by law that businesses awarded federal contracts of more than \$500,000 do their best to find minority subcontractors and record their efforts to do so on forms filed with the government. Indeed, some federal and local agen-(15) cies have gone so far as to set specific percentage goals for apportioning parts of public works contracts to minority enterprises.

Corporate response appears to have been substantial. According to figures collected in 1977, (20) the total of corporate contracts with minority businesses rose from \$77 million in 1972 to \$1. Ibillion in 1977. The projected total of corporate contracts with minority businesses for the early 1980's is estimated to be over 53 billion per year with no (25) letup anticipated in the next decade.

Promising as it is for minority businesses, this increased patronage poses dangers for them, too. First, minority firms risk expanding too fast and overextending themselves financially, since most (30) are small concerns and, unlike large businesses, they often need to make substantial investments in new plants, staff, equipment, and the like in order to perform work subcontracted to them. If, thereafter, their subcontracts are for some reason (35) reduced, such firms can face potentially crippling fixed expenses. The world of corporate purchasing can be frustrating for small entrepreneurs who get requests for elaborate formal estimates and bids. Both consume valuable time and resources, and a

small company's efforts must soon result in orders, or both the morale and the financial health of the business will suffer.

A second risk is that White-owned companies may seek to cash in on the increasing apportionments through formation of joint ventures with minority-owned concerns. Of course, in many instances there are legitimate reasons for joint ventures; clearly, White and minority enterprises can team up to acquire business that neither could acquire alone. But civil rights groups and minority business owners have complained to Congress about minorities being set up as "fronts" with White backing, rather than being accepted as full partners in legitimate joint ventures.

business of one large corporate customer often run the danger of becoming--and remaining—dependent. Even in the best of circumstances, fierce competition from larger, more established companies makes it difficult for small concerns to broaden their customer bases: when such firms have nearly guaranteed orders from a single corporate benefactor, they may truly have to struggle against complacency arising from their current success.

- 1. The primary purpose of the passage is to
 - (A) present a commonplace idea and its inaccuracies
 - (B) describe a situation and its potential drawbacks
 - (C) propose a temporary solution to a problem
 - (D) analyze a frequent source of disagreement
 - (E) explore the implications of a finding
- 2. The passage supplies information that would answer which of the following questions?
 - (A) What federal agencies have set percentage goals for the use of minority-owned businesses in public works contracts?

- (B) To which government agencies must businesses awarded federal contracts report their efforts to find minority subcontractors?
- (C) How widespread is the use of minority-owned concerns as "fronts" by White backers seeking to obtain subcontracts?
- (D) How many more minority-owned businesses were there in 1977 than in 1972?
- (E) What is one set of conditions under which a small business might find itself financially overextended?
- 3. According to the passage, civil rights activists maintain that one disadvantage under which minority- owned businesses have traditionally had to labor is that they have
 - (A) been especially vulnerable to governmental mismanagement of the economy
 - (B) been denied bank loans at rates comparable to those afforded larger competitors
 - (C) not had sufficient opportunity to secure business created by large corporations
 - (D) not been able to advertise in those media that reach large numbers of potential customers
 - (E) not had adequate representation in the centers of government power
- 4. The passage suggests that the failure of a large business to have its bids for subcontracts result quickly in orders might cause it to
 - (A) experience frustration but not serious financial harm
 - (B) face potentially crippling fixed expenses
 - (C) have to record its efforts on forms filed with the government
 - (D) increase its spending with minority subcontractors
 - (E) revise its procedure for making bids for federal contracts and subcontracts

- 5. The author implies that a minority-owned concern that does the greater part of its business with one large corporate customer should
 - (A) avoid competition with larger, more established concerns by not expanding
 - (B) concentrate on securing even more business from that corporation
 - (C) try to expand its customer base to avoid becoming dependent on the corporation
 - (D) pass on some of the work to be done for the corporation to other minority-owned concerns
 - (E) use its influence with the corporation to promote subcontracting with other minority concerns
- 6. It can be inferred from the passage that, compared with the requirements of law, the percentage goals set by "some federal and local agencies" (lines 14-15) are
 - (A) more popular with large corporations
 - (B) more specific
 - (C) less controversial
 - (D) less expensive to enforce
 - (E) easier to comply with
- 7. Which of the following, if true, would most weaken the author's assertion that, in the 1970's, corporate response to federal requirements (lines 18-19) was substantial
 - (A) Corporate contracts with minority-owned businesses totaled \$2 billion in 1979.
 - (B) Between 1970 and 1972, corporate contracts with minority-owned businesses declined by 25 percent.
 - (C) The figures collected in 1977 underrepresented the extent of corporate contracts with minorityowned businesses.
 - (D) The estimate of corporate spending with minority-owned businesses in 1980 is approximately \$10 million too high.
 - (E) The \$1.1 billion represented the same

percentage of total corporate spending in 1977 as did \$77 million in 1972.

- 8. The author would most likely agree with which of the following statements about corporate response to working with minority subcontractors?
 - (A) Annoyed by the proliferation of "front" organizations, corporations are likely to reduce their efforts to work with minority-owned subcontractors in the near future.
 - (B) Although corporations showed considerable interest in working with minority businesses in the 1970's, their aversion to government paperwork made them reluctant to pursue many government contracts.
 - (C) The significant response of corporations in the 1970's is likely to be sustained and conceivably be increased throughout the 1980's.
 - (D) Although corporations are eager to cooperate with minority-owned businesses, a shortage of capital in the 1970's made substantial response impossible.
 - (E) The enormous corporate response has all but eliminated the dangers of overexpansion that used to plague small minority-owned businesses.

Passage 2

Woodrow Wilson was referring to the liberal idea of the economic market when he said that the free enterprise system is the most efficient economic system. Maximum freedom means

- (5) maximum productiveness; our "openness" is to be the measure of our stability. Fascination with this ideal has made Americans defy the "Old World" categories of settled possessiveness *versus* unsettling deprivation, the cupidity of retention
- (10) *versus* the cupidity of seizure, a "status quo" defended or attacked. The United States, it was believed, had no *status quo ante*. Our only "sta-

tion" was the turning of a stationary wheel, spinning faster and faster. We did not base our

- (15) system on property but opportunity---which meant we based it not on stability but on mobility. The more things changed, that is, the more rapidly the wheel turned, the steadier we would be. The conventional picture of class politics is
- (20) composed of the Haves, who want a stability to keep what they have, and the Have-Nots, who want a touch of instability and change in which to scramble for the things they have not. But Americans imagined a condition in which spec-
- (25) ulators, self-makers, <u>runners</u> are always using the new opportunities given by our land. These economic leaders (<u>front</u>-runners) would thus he mainly agents of <u>change</u>. The nonstarters were considered the ones who wanted stability, a
- (30) strong referee to give them some position in the race, a regulative hand to calm manic speculation; an authority that can call things to a halt, begin things again from compensatorily staggered "starting lines."
- it can imagine no change except through the extension of this metaphor of a race, wider inclusion of competitors, "a piece of the action," as it were, for the disenfranchised. There is no
- (40) attempt to call off the race. Since our only stability is change, America seems not to honor the quiet work that achieves social interdependence and stability. There is, in our legends, no heroism of the office clerk, no stable industrial work
- (45) force of the people who actually make the system work. There is no pride in being an employee (Wilson asked for a return to the time when everyone was an employer). There has been no boasting about our social workers---they are
- (50) merely signs of the system's failure, of opportunity denied or not taken, of things to be eliminated. We have no pride in our growing

- interdependence, in the fact that our system can serve others, that we are able to help those in
- (55) need; empty boasts from the past make us ashamed of our present achievements, make us try to forget or deny them, move away from them. There is no honor but in the Wonderland race we must all run, all trying to win, none (60) winning in the end (for there is no end).
- 1. The primary purpose of the passage is to
 - (A) criticize the inflexibility of American economic mythology
 - (B) contrast "Old World" and "New World" economic ideologies
 - (C) challenge the integrity of traditional political leaders
 - (D) champion those Americans whom the author deems to be neglected
 - (E) suggest a substitute for the traditional metaphor of a race
- 2. According to the passage, "Old World" values were based on
 - (A) ability
 - (B) property
 - (C) family connections
 - (D) guild hierarchies
 - (E) education
- 3. In the context of the author's discussion of regulating change, which of the following could be most probably regarded as a "strong referee" (line 30) in the United States?
 - (A) A school principal
 - (B) A political theorist
 - (C) A federal court judge
 - (D) A social worker
 - (E) A government inspector
- 4. The author sets off the word "Reform" (line 35) with

- quotation marks in order to
- Student Bounty.com (A) emphasize its departure from the concept of settled possessiveness
- (B) show his support for a systematic program of change
- (C) underscore the flexibility and even amorphousness of United States society.
- (D) indicate that the term was one of Wilson's favorites
- (E) assert that reform in the United States has not been fundamental
- 5. It can be inferred from the passage that the author most probably thinks that giving the disenfranchised "a piece of the action" (line 38) is
 - (A) a compassionate, if misdirected, legislative measure
 - (B) an example of Americans' resistance to profound social change
 - (C) an innovative program for genuine social reform
 - (D) a monument to the efforts of industrial reformers
 - (E) a surprisingly "Old World" remedy for social ills
- 6. Which of the following metaphors could the author most appropriately use to summarize his own assessment of the American economic system (lines 35-60)?
 - (A) A windmill
 - (B) A waterfall
 - (C) A treadmill
 - (D) A gyroscope
 - (E) A bellows
- 7. It can be inferred from the passage that Woodrow Wilson's ideas about the economic market
 - (A) encouraged those who "make the system work" (lines 45-46)
 - (B) perpetuated traditional legends about America
 - (C) revealed the prejudices of a man born wealthy
 - (D) foreshadowed the stock market crash of 1929
 - (E) began a tradition of presidential proclamations on

economics

- 8. The passage contains information that would answer which of the following questions?
 - I .What techniques have industrialists used to manipulate a free market?
 - II .In what ways are "New World" and "Old World" economic policies similar?
 - III. Has economic policy in the United States tended to reward independent action?
 - (A) I only
 - (B) II only
 - (C) III only
 - (D) I and II only
 - (E) II and III only
- 9. Which of the following best expresses the author's main point?
 - (A) Americans' pride in their jobs continues to give them stamina today.
 - (B) The absence of a *status quo ante* has undermined United States economic structure.
 - (C) The free enterprise system has been only a useless concept in the United States
 - (D) The myth of the American free enterprise system is seriously flawed.
 - (E) Fascination with the ideal of "openness" has made Americans a progressive people.

Passage 3

No very satisfactory account of the mechanism that caused the formation of the ocean basins has yet been given. The traditional view supposes that the upper mantle of the earth behaves as a

(5) liquid when it is subjected to small forces for long periods and that differences in temperature under oceans and continents are sufficient to produce convection in the mantle of the earth with rising convection currents under the mid(10) ocean ridges and sinking currents under the continents. Theoretically, this convection would carry the continental plates along as though they were on a conveyor belt and would provide the forces needed to produce the split that occurs

- (15) along the ridge. This view may be correct: it has the advantage that the currents are driven by temperature differences that themselves depend on the position of the continents. Such a back-coupling, in which the position of the moving
- (20) plate has an impact on the forces that move it, could produce complicated and varying motions.

On the other hand, the theory is implausible

because convection does not normally occur along lines. and it certainly does not occur along (25) lines broken by frequent offsets or changes in direction, as the ridge is. Also it is difficult to see how the theory applies to the plate between the Mid-Atlantic Ridge and the ridge in the Indian Ocean. This plate is growing on both sides, and

- (30) since there is no intermediate trench, the two ridges must be moving apart. It would be odd if the rising convection currents kept exact pace with them. An alternative theory is that the sinking part of the plate, which is denser than the
- (35) hotter surrounding mantle, pulls the rest of the plate after it. Again it is difficult to see how this applies to the ridge in the South Atlantic, where neither the African nor the American plate has a sinking part.
- (40) Another possibility is that the sinking plate cools the neighboring mantle and produces convection currents that move the plates. This last theory is attractive because it gives some hope of explaining the enclosed seas, such as the Sea of
- (45) Japan. These seas have a typical oceanic floor, except that the floor is overlaid by several kilometers of sediment. Their floors have probably been sinking for long periods. It seems possible

that a sinking current of cooled mantle material (50) on the upper side of the plate might be the cause of such deep basins. The enclosed seas are an important feature of the earth's surface, and seriously require explanation in because, addition to the enclosed seas that are developing at present behind island arcs, there are a number of (55) older ones of possibly similar origin, such as the Gulf of Mexico, the Black Sea, and perhaps the

- 1. According to the traditional view of the origin of the ocean basins, which of the following is sufficient to move the continental plates?
 - (A) Increases in sedimentation on ocean floors
 - (B) Spreading of ocean trenches
 - (C) Movement of mid-ocean ridges
 - (D) Sinking of ocean basins
 - (E) Differences in temperature under oceans and continents
- 2. It can be inferred from the passage that, of the following, the deepest sediments would be found in the
 - (A) Indian Ocean
 - (B) Black Sea

North Sea.

- (C) Mid-Atlantic
- (D) South Atlantic
- (E) Pacific
- 3. The author refers to a "conveyor belt" in line 13 in order to
 - (A) illustrate the effects of convection in the mantle
 - (B) show how temperature differences depend on the positions of the continents
 - (C) demonstrate the linear nature of the Mid-Atlantic Ridge
 - (D) describe the complicated motions made possible by back-coupling
 - (E) account for the rising currents under certain midocean ridges

- 4. The author regards the traditional view of the origin of the oceans with
 - (A) slight apprehension
 - (B) absolute indifference
 - (C) indignant anger
 - (D) complete disbelief
 - (E) guarded skepticism
- 5. According to the passage, which of the following are separated by a plate that is growing on both sides?
 - (A) The Pacific Ocean and the Sea of Japan
 - (B) The South Atlantic Ridge and the North Sea Ridge
 - (C) The Gulf of Mexico and the South Atlantic Ridge
 - (D) The Mid-Atlantic Ridge and the Indian Ocean Ridge
 - (E) The Black Sea and the Sea of Japan
- 6. Which of the following, if it could be demonstrated, would most support the traditional view of ocean formation?
 - (A) Convection usually occurs along lines.
 - (B) The upper mantle behaves as a dense solid.
 - (C) Sedimentation occurs at a constant rate.
 - (D) Sinking plates cool the mantle.
 - (E) Island arcs surround enclosed seas.
- 7. According to the passage, the floor of the Black Sea can best be compared to a
 - (A) rapidly moving conveyor belt
 - (B) slowly settling foundation
 - (C) rapidly expanding balloon
 - (D) violently erupting volcano
 - (E) slowly eroding mountain
- 8. Which of the following titles would best describe the content of the passage?
 - (A) A Description of the Oceans of the World
 - (B) Several Theories of Ocean Basin Formation
 - (C) The Traditional View of the Oceans

- (D) Convection and Ocean Currents
- (E) Temperature Differences Among the Oceans of the World

The fossil remains of the first flying vertebrates, the pterosaurs, have intrigued paleontologists for more than two centuries. How such large creatures, which weighed in some cases as much as a piloted hang-glider (5) and had wingspans from 8 to 12 meters, solved the problems of powered flight, and exactly what these creatures were--reptiles or birds-are among the questions scientists have puzzled over.

Perhaps the least controversial assertion about the (10) pterosaurs is that they were reptiles. Their skulls, pelvises, and hind feet are reptilian. The anatomy of their wings suggests that they did not evolve into the class of birds. In pterosaurs a greatly elongated fourth finger of each forelimb supported a winglike membrane.

(15) The other fingers were short and reptilian, with sharp claws. In birds the second finger is the principal strut of the wing, which consists primarily of feathers. If the pterosaurs walked on all fours, the three short fingers may have been employed for grasping. When a

(20) pterosaur walked or remained stationary, the fourth finger, and with it the wing, could only turn upward in

The pterosaurs resembled both birds and bats in (25) their overall structure and proportions. This is not surprising because the design of any flying vertebrate is subject to aerodynamic constraints. Both the pterosaurs and the birds have hollow bones, a feature that represents a savings in weight. In the birds, however, these (30) bones are reinforced more massively by internal struts.

animal's body.

an extended inverted V-shape along each side of the

Although scales typically cover reptiles, the pterosaurs probably had hairy coats. T.H. Huxley reasoned that flying vertebrates must have been warmblooded because flying implies a high rate of

(35) metabolism, which in turn implies a high internal aperature. Huxley speculated that a coat of hair would insulate against loss of body heat and might streamline the body to reduce drag in flight. The recent discovery of a pterosaur specimen covered in long, dense, and (40) relatively thick hairlike fossil material was the first clear evidence that his reasoning was correct.

Efforts to explain how the pterosaurs became airborne have led to suggestions that they launched themselves by jumping from cliffs, by dropping from trees.

(45) or even by rising into light winds from the crests of waves. Each hypothesis has its difficulties. The first wrongly assumes that the pterosaurs' hind feet resembled a bat's and could serve as hooks by which the animal could hang in preparation for flight. The second (50) hypothesis seems unlikely because large pterosaurs could not have landed in trees without damaging their wings. The third calls for high waves to channel updrafts. The wind that made such waves however, might have been too strong for the pterosaurs to (55) control their flight once airborne.

- 1. It can be inferred from the passage that scientists now generally agree that the
- (A) enormous wingspan of the pterosaurs enabled them to fly great distances
- (B) structure of the skeleton of the pterosaurs suggests a close evolutionary relationship to bats
- (C) fossil remains of the pterosaurs reveal how they solved the problem of powered flight
- (D) pterosaurs were reptiles
- (E) pterosaurs walked on all fours
- 2. The author views the idea that the pterosaurs became airborne by rising into light winds created by waves as
 - (A) revolutionary
 - (B) unlikely
 - (C) unassailable
 - (D) probable

(E) outdated

- 3. According to the passage, the skeleton of a pterosaur can be distinguished from that of a bird by
- (A) size of its wingspan
- (B) presence of hollow spaces in its bones
- (C) anatomic origin of its wing strut
- (D) presence of hooklike projections on its hind feet
- (E) location of the shoulder joint joining the wing to its body
- 4. The ideas attributed to T.H. Huxley in the passage suggest that he would most likely agree with which of the following statements?
 - (A) An animal's brain size has little bearing on its ability to master complex behaviors.
 - (B) An animal's appearance is often influenced by environmental requirements and physical capabilities.
 - (C) Animals within a given family group are unlikely to change their appearance dramatically over a period of time.
 - (D) The origin of flight in vertebrates was an accidental development rather than the outcome of specialization or adaptation.
 - (E) The pterosaurs should be classified as birds, not reptiles.
- 5. It can be inferred from the passage that which of the following is characteristic of the pterosaurs?
 - (A) They were unable to fold their wings when not in
 - (B) They hung upside down from branches as bats do before flight.
 - (C) They flew in order to capture prey.
 - (D) They were an early stage in the evolution of the birds.
 - (E) They lived primarily in a forestlike habitat.
- 6. Which of the following best describes the organization

- of the last paragraph of the passage?
- StudentBounty.com (A) New evidence is introduced to support a traditional point of view.
- (B) Three explanations for a phenomenon are presented, and each is disputed by means of specific information.
- (C) Three hypotheses are outlined, and evidence supporting each is given.
- (D) Recent discoveries are described, and their implications for future study are projected
- (E) A summary of the material in the preceding paragraphs is presented, and conclusions are drawn.
- 7. It can be inferred from the passage that some scientists believe that pterosaurs
 - (A) lived near large bodies of water
 - (B) had sharp teeth for tearing food
 - (C) were attacked and eaten by larger reptiles
 - (D) had longer tails than many birds
 - (E) consumed twice their weight daily to maintain their body temperature

Passage 5

How many really suffer as a result of labor market problems? This is one of the most critical yet contentious social policy questions. In many ways, our social statistics exaggerate the degree of hard-

- (5) ship. Unemployment does not have the same dire consequences today as it did in the 1930's when most of the unemployed were primary breadwinners, when income and earnings were usually much closer to the margin of subsistence, and when there
- (10) were no countervailing social programs for those failing in the labor market. Increasing affluence, the rise of families with more than one wage earner, the growing predominance of secondary earners among the unemployed, and improved social welfare pro-
- (15) tection have unquestionably mitigated the conse-

quences of joblessness. Earnings and income data also overstate the dimensions of hardship. Among the millions with hourly earnings at or below the minimum wage level, the overwhelming majority (20) are from multiple-earner, relatively affluent

families. Most of those counted by the poverty statistics are elderly or handicapped or have family responsibilities which keep them out of the labor force, so the poverty statistics are by no means an (25) accurate indicator of labor market pathologies.

Yet there are also many ways our social statistics underestimate the degree of labor-market-related hardship. The unemployment counts exclude the millions of fully employed workers whose wages are as so low that their families remain in poverty. Low

- (30) so low that their families remain in poverty. Low wages and repeated or prolonged unemployment frequently interact to undermine the capacity for self-support. Since the number experiencing joblessness at some time during the year is several times
- (35)the number unemployed in any month, those who suffer as a result of forced idleness can equal or exceed average annual unemployment, even though only a minority of the jobless in any month really suffer. For every person counted in the monthly
- (40) unemployment tallies, there is another working part-time because of the inability to find full-time work, or else outside the labor force but wanting a job. Finally, income transfers in our country have always focused on the elderly, disabled, and depen-
- (45)dent, neglecting the needs of the working poor, so that the dramatic expansion of cash and in-kind transfers does not necessarily mean that those failing in the labor market are adequately protected.

As a result of such contradictory evidence, it is

(50) uncertain whether those suffering seriously as a

result of thousands or the tens of millions, and,
hence, whether high levels of joblessness can be tolerated or must be countered by job creation and

(55) economic stimulus. There is only one area of agreement in this debate---that the existing poverty,

employment, and earnings statistics are inadequate for one their primary applications, measuring the consequences of labor market problems.

- 1. Which of the following is the principal topic of the passage?
 - (A) What causes labor market pathologies that result in suffering
 - (B) Why income measures are imprecise in measuring degrees of poverty
 - (C) Which of the currently used statistical procedures are the best for estimating the incidence of hardship that is due to unemployment
 - (D) Where the areas of agreement are among poverty, employment, and earnings figures
 - (E) How social statistics give an unclear picture of the degree of hardship caused by low wages and insufficient employment opportunities
- 2. The author uses "labor market problems" in lines 1-2 to refer to which of the following?
 - (A) The overall causes of poverty
 - (B) Deficiencies in the training of the work force
 - (C) Trade relationships among producers of goods
 - (D) Shortages of jobs providing adequate income
 - (E) Strikes and inadequate supplies of labor
- 3. The author contrasts the 1930's with the present in order to show that
 - (A) more people were unemployed in the 1930's
 - (B) unemployment now has less severe effects
 - (C) social programs are more needed now
 - (D) there now is a greater proportion of elderly and handicapped people among those in poverty
 - (E) poverty has increased since the 1930's
- 4. Which of the following proposals best responds to the issues raised by the author?
 - (A) Innovative programs using multiple approaches should be set up to reduce the level of

- unemployment.
- (B) A compromise should be found between the positions of those who view joblessness as an evil greater than economic control and those who hold the opposite view.
- (C) New statistical indices should be developed to measure the degree to which unemployment and inadequately paid employment cause suffering.
- (D) Consideration should be given to the ways in which statistics can act as partial causes of the phenomena that they purport to measure.
- (E) The labor force should be restructured so that it corresponds to the range of job vacancies.
- 5. The author's purpose in citing those who are repeatedly unemployed during a twelve-month period is most probably to show that
- (A) there are several factors that cause the payment of low wages to some members of the labor force
- (B) unemployment statistics can underestimate the hardship resulting from joblessness
- (C) recurrent inadequacies in the labor market can exist and can cause hardships for individual workers
- (D) a majority of those who are jobless at any one time to not suffer severe hardship
- (E) there are fewer individuals who are without jobs at some time during a year than would be expected on the basis of monthly unemployment figures
- 6. The author states that the mitigating effect of social programs involving income transfers on the income level of low-income people is often not felt by
 - (A) the employed poor
 - (B) dependent children in single-earner families
 - (C) workers who become disabled
 - (D) retired workers
 - (E) full-time workers who become unemployed

- 7. According to the passage, one factor that causes unemployment and earnings figures to overpredict the amount of economic hardship is the
 - (A) recurrence of periods of unemployment for a group of low-wage workers
 - (B) possibility that earnings may be received from more than one job per worker
 - (C) fact that unemployment counts do not include those who work for low wages and remain poor
 - (D) establishment of a system of record-keeping that makes it possible to compile poverty statistics
 - (E) prevalence, among low-wage workers and the unemployed, of members of families in which others are employed
- 8. The conclusion stated in lines 33-39 about the number of people who suffer as a result of forced idleness depends primarily on the point that
 - (A) in times of high unemployment, there are some people who do not remain unemployed for long
 - (B) the capacity for self-support depends on receiving moderate-to-high wages
 - (C) those in forced idleness include, besides the unemployed, both underemployed part-time workers and those not actively seeking work
 - (D) at different times during the year, different people are unemployed
 - (E) many of those who are affected by unemployment are dependents of unemployed workers
- 9. Which of the following, if true, is the best criticism of the author's argument concerning why poverty statistics cannot properly be used to show the effects of problems in the labor market?
 - (A) A short-term increase in the number of those in poverty can indicate a shortage of jobs because the basic number of those unable to accept employment remains approximately constant.
 - (B) For those who are in poverty as a result of joblessness, there are social programs available

that provide a minimum standard of living.

- (C) Poverty statistics do not consistently agree with earnings statistics, when each is taken as a measure of hardship resulting from unemployment.
- (D) The elderly and handicapped categories include many who previously were employed in the labor market.
- (E) Since the labor market is global in nature, poor workers in one country are competing with poor workers in another with respect to the level of wages and the existence of jobs.

Passage 6

In the eighteenth century, Japan's feudal overlords, from the shogun to the humblest samurai, found themselves under financial stress. In part, this stress can be attributed to (5) the overlords' failure to adjust to a rapidly expanding economy, but the stress was also due to factors beyond the overlords' control. Concentration of the samurai in castle-towns had acted as a stimulus to trade. Commercial efficiency, in (10) turn, had put temptations in the way of buyers. Since most samurai had been reduced to idleness by years of peace, encouraged to engage in scholarship and martial exercises or to perform administrative tasks that took little time, it is (15) not surprising that their tastes and habits grew expensive. Overlords' income, despite the increase in rice production among their tenant farmers, failed to keep pace with their expenses. Although shortfalls in overlords' income re-(20) sulted almost as much from laxity among their tax collectors (the nearly inevitable outcome of hereditary officeholding) as from their higher standards of living, a misfortune like a fire or flood, bringing an increase in expenses or a drop (25) in revenue, could put a domain in debt to the

city rice-brokers who handled its finances. Once

in debt, neither the individual samurai nor the shogun himself found it easy to recover.

It was difficult for individual samurai over(30) lords to increase their income because the
amount of rice that farmers could be made to
pay in taxes was not unlimited, and since the income of Japan's central government consisted in
part of taxes collected by the shogun from his

- (35) huge domain, the government too was constrained. Therefore, the Tokugawa shoguns began to look to other sources for revenue.

 Cash profits from government-owned mines were already on the decline because the most
- (40) easily worked deposits of silver and gold had been exhausted, although debasement of the coinage had compensated for the loss. Opening up new farmland was a possibility, but most of what was suitable had already been exploited
- (45) and further reclamation was technically unfeasible. Direct taxation of the samurai themselves would be politically dangerous. This left the shoguns only commerce as a potential source of government income.
- (50) Most of the country's wealth, or so it seemed, was finding its way into the hands of city merchants. It appeared reasonable that they should contribute part of that revenue to ease the shogun's burden of financing the state. A means
- (55) of obtaining such revenue was soon found by levying forced ioans, known as *goyo-kin*; although these were not taxes in the strict sense, since they were irregular in timing and arbitrary in amount, they were high in yield. Unfortunately,
- (60) they pushed up prices. Thus, regrettably, the Tokugawa shoguns' search for solvency for the government made it increasingly difficult for individual Japanese who lived on fixed stipends to make ends meet.
- 1. The passage is most probably an excerpt from

- (A) an economic history of Japan
- (B) the memoirs of a samurai warrior
- (C) a modern novel about eighteenth-century Japan
- (D) an essay contrasting Japanese feudalism with its Western counterpart
- (E) an introduction to a collection of Japanese folktales
- 2. Which of the following financial situations is most analogous to the financial situation in which Japan's Tokugawa shoguns found themselves in the eighteenth century?
 - (A) A small business borrows heavily to invest in new equipment, but is able to pay off its debt early when it is awarded a lucrative government contract.
 - (B) Fire destroys a small business, but insurance covers the cost of rebuilding.
 - (C) A small business is turned down for a loan at a local bank because the owners have no credit history?
 - (D) A small business has to struggle to meet operating expenses when its profits decrease.
 - (E) A small business is able to cut back sharply on spending through greater commercial efficiency and thereby compensate for a loss of revenue.
- 3. Which of the following best describes the attitude of the author toward the samurai discussed in lines 11-16?
 - (A) Warmly approving
 - (B) Mildly sympathetic
 - (C) Bitterly disappointed
 - (D) Harshly disdainful
 - (E) Profoundly shocked
- 4. According to the passage, the major reason for the financial problems experienced by Japan's feudal overlords in the eighteenth century was that
 - (A) spending had outdistanced income
 - (B) trade had fallen off
 - (C) profits from mining had declined

- (D) the coinage had been sharply debased
- Student Bounty.com (E) the samurai had concentrated in castle-towns
- 5. The passage implies that individual samurai did not find it easy to recover from debt for which of the following reasons?
 - (A) Agricultural production had increased.
 - (B) Taxes were irregular in timing and arbitrary in amount.
 - (C) The Japanese government had failed to adjust to the needs of a changing economy.
 - (D) The domains of samurai overlords were becoming smaller and poorer as government revenues increased.
 - (E) There was a limit to the amount in taxes that farmers could be made to pay.
- 6. The passage suggests that, in eighteenth-century Japan, the office of tax collector
 - (A) was a source of personal profit to the officeholder
 - (B) was regarded with derision by many Japanese
 - (C) remained within families
 - (D) existed only in castle-towns
 - (E) took up most of the officeholder's time
- 7. Which of the following could best be substituted for the word "This" in line 47 without changing the meaning of the passage?
 - (A) The search of Japan's Tokugawa shoguns for solvency
 - (B) The importance of commerce in feudal Japan
 - (C) The unfairness of the tax structure in eighteenthcentury Japan
 - (D) The difficulty of increasing government income by other means
 - (E) The difficulty experienced by both individual samurai and the shogun himself in extricating themselves from debt

- 8. The passage implies that which of the following was the primary reason why the Tokugawa shoguns turned to city merchants for help in financing the state?
 - (A) A series of costly wars had depleted the national treasury.
 - (B) Most of the country's wealth appeared to be in city merchants' hands.
 - (C) Japan had suffered a series of economic reversals due to natural disasters such as floods.
 - (D) The merchants were already heavily indebted to the shoguns.
 - (E) Further reclamation of land would not have been economically advantageous.
- According to the passage, the actions of the Tokugawa shoguns in their search for solvency for the government were regrettable because those actions
 - (A) raised the cost of living by pushing up prices
 - (B) resulted in the exhaustion of the most easily worked deposits of silver and gold
 - (C) were far lower in yield than had originally been anticipated
 - (D) did not succeed in reducing government spending
 - (E) acted as a deterrent to trade

Between the eighth and eleventh centuries A.D., the Byzantine Empire staged an almost unparalleled economic and cultural revival, a recovery that is all the more striking because it followed a long period of severe (5) internal decline. By the early eighth century, the empire had lost roughly two-thirds of the territory it had possessed in the year 600, and its remaining area was being raided by Arabs and Bulgarians, who at times threatened to take Constantinople and extinguish the (10) empire altogether. The wealth of the state and its subjects was greatly diminished, and artistic and literary

production had virtually ceased. By the early eleveratury, however, the empire had regained almost half of its lost possessions, its new frontiers were secure, and its (15) influence extended far beyond its borders. The economy had recovered, the treasury was full, and art and scholarship had advanced.

To consider the Byzantine military, cultural, and economic advances as differentiated aspects of a single (20) phenomenon is reasonable. After all, these three forms of progress have gone together in a number of states and civilizations. Rome under Augustus and fifth-century Athens provide the most obvious examples in antiquity. Moreover, an examination of the apparent sequential (25) connections among military, economic, and cultural forms of progress might help explain the dynamics of historical change.

The common explanation of these apparent connections in the case of Byzantium would run like this:

(30) when the empire had turned back enemy raids on its own territory and had begun to raid and conquer enemy territory, Byzantine resources naturally expanded and more money became available to patronize art and literature. Therefore, Byzantine military achievements led to (35) economic advances, which in turn led to cultural revival.

No doubt this hypothetical pattern did apply at times

military advances invariably came first. economic advances second, and intellectual advances third. In the (40) 860's the Byzantine Empire began to recover from Arab incursions so that by 872 the military balance with the Abbasid Caliphate had been permanently altered in the empire's favor. The beginning of the empire's economic revival, however, can be placed between 810 and 830.

during the course of the recovery. Yet it is not clear that

- (45) Finally, the Byzantine revival of learning appears to have begun even earlier. A number of notable scholars and writers appeared by 788 and, by the last decade of the eighth century, a cultural revival was in full bloom, a revival that lasted until the fall of Constantinople in
- (50) 1453. Thus the commonly expected order of military revival followed by economic and then by cultural

recovery was reversed in Byzantium. In fact, the revival of Byzantine learning may itself have influenced the subsequent economic and military expansion.

- 1. Which of the following best states the central idea of the passage?
- (A) The Byzantine Empire was a unique case in which the usual order of military and economic revival preceding cultural revival was reversed.
- (B) The economic, cultural, and military revival in the Byzantine Empire between the eighth and eleventh centuries was similar in its order to the sequence of revivals in Augustan Rome and fifthcentury Athens.
- (C) After 810 Byzantine economic recovery spurred a military and, later, cultural expansion that lasted until 1453.
- (D) The eighth-century revival of Byzantine learning is an inexplicable phenomenon, and its economic and military precursors have yet to be discovered.
- (E) The revival of the Byzantine Empire between the eighth and eleventh centuries shows cultural rebirth preceding economic and military revival, the reverse of the commonly accepted order of progress.
- 2. The primary purpose of the second paragraph is which of the following?
- (A) To establish the uniqueness of the Byzantine revival
- (B) To show that Augustan Rome and fifth-century Athens are examples of cultural, economic, and military expansion against which all subsequent cases must be measured
- (C) To suggest that cultural, economic. and military advances have tended to be closely interrelated in different societies.
- (D) To argue that, while the revivals of Augustan Rome and fifth-century Athens were similar, they are unrelated to other historical examples

- (E) To indicate that, wherever possible, historians should seek to make comparisons with the earliest chronological examples of revival
- 3. It can be inferred from the passage that by the eleventh century the Byzantine military forces
 - (A) had reached their peak and begun to decline
 - (B) had eliminated the Bulgarian army
 - (C) were comparable in size to the army of Rome under Augustus
 - (D) were strong enough to withstand the Abbasid Caliphate's military forces
 - (E) had achieved control of Byzantine governmental structures
- 4. It can be inferred from the passage that the Byzantine Empire sustained significant territorial losses
 - (A) in 600
 - (B) during the seventh century
 - (C) a century after the cultural achievements of the Byzantine Empire had been lost
 - (D) soon after the revival of Byzantine learning
 - (E) in the century after 873
- In the third paragraph, the author most probably provides an explanation of the apparent connections among economic, military, and cultural development in order to
 - (A) suggest that the process of revival in Byzantium accords with this model
 - (B) set up an order of events that is then shown to be not generally applicable to the case of Byzantium
 - (C) cast aspersions on traditional historical scholarship about Byzantium
 - (D) suggest that Byzantium represents a case for which no historical precedent exists
 - (E) argue that military conquest is the paramount element in the growth of empires
- 6. Which of the following does the author mention as

- crucial evidence concerning the manner in which the Byzantine revival began?
- (A) The Byzantine military revival of the 860's led to economic and cultural advances.
- (B) The Byzantine cultural revival lasted until 1453.
- (C) The Byzantine economic recovery began in the 900's.
- (D) The revival of Byzantine learning began toward the end of the eighth century.
- (E) By the early eleventh century the Byzantine Empire had regained much of its lost territory.
- 7. According to the author, "The common explanation" (line 28) of connections between economic, military, and cultural development is
 - (A) revolutionary and too new to have been applied to the history of the Byzantine Empire
 - (B) reasonable, but an antiquated theory of the nature of progress
 - (C) not applicable to the Byzantine revival as a whole, but does perhaps accurately describe limited periods during the revival
 - (D) equally applicable to the Byzantine case as a whole and to the history of military, economic, and cultural advances in ancient Greece and Rome
 - (E) essentially not helpful, because military, economic, and cultural advances are part of a single phenomenon

Virtually everything astronomers known about objects outside the solar system is based on the detection of photons-quanta of electromagnetic radiation. Yet there is another form of radiation that permeates the universe: (5) neutrinos. With (as its name implies) no electric charge, and negligible mass, the neutrino interacts with other particles so rarely that a neutrino can cross the entire universe, even traversing substantial aggregations of

matter, without being absorbed or even deflected.

- Student Bounty.com (10) trinos can thus escape from regions of space where lig and other kinds of electromagnetic radiation are blocked by matter. Furthermore, neutrinos carry with them information about the site and circumstances of their production: therefore, the detection of cosmic neutrinos
- (15) could provide new information about a wide variety of cosmic phenomena and about the history of the universe.

But how can scientists detect a particle that interacts so infrequently with other matter? Twenty-five years (20) passed between Pauli's hypothesis that the neutrino existed and its actual detection: since then virtually all research with neutrinos has been with neutrinos created artificially in large particle accelerators and studied under neutrino microscopes. But a neutrino telescope,

- (25) capable of detecting cosmic neutrinos, is difficult to construct. No apparatus can detect neutrinos unless it is extremely massive, because great mass is synonymous with huge numbers of nucleons (neutrons and protons), and the more massive the detector, the greater the pro-
- (30) bability of one of its nucleon's reacting with a neutrino. In addition, the apparatus must be sufficiently shielded from the interfering effects of other particles.

Fortunately, a group of astrophysicists has proposed a means of detecting cosmic neutrinos by harnessing the (35) mass of the ocean. Named DUMAND, for Deep Underwater Muon and Neutrino Detector, the project calls for placing an array of light sensors at a depth of five kilo-

meters under the ocean surface. The detecting medium is the seawater itself: when a neutrino interacts with a (40) particle in an atom of seawater. the result is a cascade of electrically charged particles and a flash of light that

be detected by the sensors. The five kilometers of seawater above the sensors will shield them from the interf-

ering effects of other high-energy particles raining down (45) through the atmosphere.

can

The strongest motivation for the DUMAND project is that it will exploit an important source of information about the universe. The extension of astronomy from visible light to radio waves to x-rays and gamma rays (50) never failed to lead to the discovery of unusual objects such as radio galaxies, quasars, and pulsars. Each of these discoveries came as a surprise. Neutrino astronomy will doubtless bring its own share of surprises.

- 1. Which of the following titles best summarizes the passage as a whole?
 - (A) At the Threshold of Neutrino Astronomy
 - (B) Neutrinos and the History of the Universe
 - (C) The Creation and Study of Neutrinos
 - (D) The DUMAND System and How It Works
 - (E) The Properties of the Neutrino
- 2. With which of the following statements regarding neutrino astronomy would the author be most likely to agree?
 - (A) Neutrino astronomy will supersede all present forms of astronomy.
 - (B) Neutrino astronomy will be abandoned if the
 - 4. According to the passage, one advantage that neutrinos 6. The passage states that interactions between neutrinos have for studies in astronomy is that they
 - (A) have been detected for the last twenty-five years
 - (B) possess a variable electric charge
 - (C) are usually extremely massive
 - (D) carry information about their history with them
 - (E) are very similar to other electromagnetic particles
- 5. According to the passage, the primary use of the apparatus mentioned in lines 24-32 would be to
 - (A) increase the mass of a neutrino
 - (B) interpret the information neutrinos carry with them
 - (C) study the internal structure of a neutrino
 - (D) see neutrinos in distant regions of space
 - (E) detect the presence of cosmic neutrinos

- DUMAND project fails.
- Student Bounty.com (C) Neutrino astronomy can be expected to lead to major breakthroughs in astronomy.
- (D) Neutrino astronomy will disclose phenomena that will be more surprising than past discoveries.
- (E) Neutrino astronomy will always be characterized by a large time lag between hypothesis and experimental confirmation.
- 3. In the last paragraph, the author describes the development of astronomy in order to
 - (A) suggest that the potential findings of neutrino astronomy can be seen as part of a series of astronomical successes
 - (B) illustrate the role of surprise in scientific discovery
 - (C) demonstrate the effectiveness of the DUMAND apparatus in detecting neutrinos
 - (D) name some cosmic phenomena that neutrino astronomy will illuminate
 - (E) contrast the motivation of earlier astronomers with that of the astrophysicists working on the **DUMAND** project
- and other matter are
 - (A) rare
 - (B) artificial
 - (C) undetectable
 - (D) unpredictable
 - (E) hazardous
- 7. The passage mentions which of the following as a reason that neutrinos are hard to detect?
 - (A) Their pervasiveness in the universe
 - (B) Their ability to escape from different regions of space
 - (C) Their inability to penetrate dense matter
 - (D) The similarity of their structure to that of nucleons
 - (E) The infrequency of their interaction with other

matter

- 8. According to the passage, the interaction of a neutrino with other matter can produce
 - (A) particles that are neutral and massive
 - (B) a form of radiation that permeates the universe
 - (C) inaccurate information about the site and circumstances of the neutrino's production
 - (D) charged particles and light
 - (E) a situation in which light and other forms of electromagnetic radiation are blocked
- 9. According to the passage, one of the methods used to establish the properties of neutrinos was
 - (A) detection of photons
 - (B) observation of the interaction of neutrinos with gamma rays
 - (C) observation of neutrinos that were artificially created
- (D) measurement of neutrinos that interacted with particles of seawater
- (E) experiments with electromagnetic radiation

Passage 9

Most economists in the united States seem captivated by the spell of the free market. Consequently, nothing seems good or normal that does not accord with the requirements of the free market.

- (5) A price that is determined by the seller or, for that matter, established by anyone other than the aggregate of consumers seems pernicious. Accordingly, it requires a major act of will to think of price-fixing (the determination of prices by the
- (10) seller) as both "normal" and having a valuable economic function. In fact, price-fixing is normal in all industrialized societies because the industrial system itself provides, as an effortless consequence of its own development, the price-fixing
- (15) that it requires. Modern industrial planning

requires and rewards great size. Hence,
a comparatively small number of large firms will
be competing for the same group of consumers.
That each large firm will act with consideration of
(20) its own needs and thus avoid selling its products
for more than its competitors charge is commonly
recognized by advocates of free-market economic
theories. But each large firm will also act with
full consideration of the needs that it has in
(25) common with the other large firms competing for
the same customers. Each large firm will thus
avoid significant price-cutting, because price-

in a stable demand for products. Most economists (30) do not see price-fixing when it occurs because they expect it to be brought about by a number of explicit agreements among large firms; it is not.

cutting would be prejudicial to the common interest

Moreover, those economists who argue that allowing the free market to operate without inter(35) ference is the most efficient method of establishing prices have not considered the economies of nonsocialist countries other than the United states.

These economies employ intentional price-fixing, usually in an overt fashion. Formal price-fixing
(40) by cartel and informal price-fixing by agreements covering the members of an industry are commonplace. Were there something peculiarly efficient about the free market and inefficient about pricefixing, the countries that have avoided the first
(45) and used the second would have suffered drastically in their economic development. There is no indication that they have.

Socialist industry also works within a framework of controlled prices. In the early 1970's,

(50) the Soviet Union began to give firms and industries some of the flexibility in adjusting prices that a more informal evolution has accorded the capitalist system. Economists in the United States have hailed the change as a return to the free market.

(55) But Soviet firms are no more subject to prices

established by a free market over which they exercise little influence than are capitalist firms; rather, Soviet firms have been given the power to fix prices.

- 1. The primary purpose of the passage is to
- (A) refute the theory that the free market plays a useful role in the development of industrialized societies
- (B) suggest methods by which economists and members of the government of the United States can recognize and combat price-fixing by large firms
- (C) show that in industrialized societies price-fixing and the operation of the free market are not only compatible but also mutually beneficial
- (D) explain the various ways in which industrialized societies can fix prices in order to stabilize the free
- (E) argue that price-fixing, in one form or another, is an inevitable part of and benefit to the economy of any industrialized society
- 2. The passage provides information that would answer which of the following questions about price-fixing?
 - I .What are some of the ways in which prices can be fixed?
- II. For what products is price-fixing likely to be more profitable that the operation of the free market?
- III.Is price-fixing more common in socialist industrialized societies or in nonsocialist industrialized societies?
- (A) I only
- (B) III only
- (C) I and II only
- (D) II and III only
- (E) I, II, and III
- 3. The author's attitude toward "Most economists in the United States"(line 1) can best be described as (A) spiteful and envious

- (B) scornful and denunciatory
- SHIIDENHBOUNKY.COM (C) critical and condescending
- (D) ambivalent but deferential
- (E) uncertain but interested
- 4. It can be inferred from the author's argument that a price fixed by the seller "seems pernicious" (line 7) because
 - (A) people do not have confidence in large firms
 - (B) people do not expect the government to regulate prices
 - (C) most economists believe that consumers as a group should determine prices
 - (D) most economists associate fixed prices with communist and socialist economies
 - (E) most economists believe that no one group should determine prices
- 5. The suggestion in the passage that price-fixing in industrialized societies is normal arises from the author's statement that price-fixing is
 - (A) a profitable result of economic development
 - (B) an inevitable result of the industrial system
 - (C) the result of a number of carefully organized decisions
- (D) a phenomenon common to industrialized and nonindustrialized societies
- (E) a phenomenon best achieved cooperatively by government and industry
- 6. According to the author, price-fixing in nonsocialist countries is often
- (A) accidental but productive
- (B) illegal but useful
- (C) legal and innovative
- (D) traditional and rigid
- (E) intentional and widespread
- 7. According to the author, what is the result of the Soviet Union's change in economic policy in the 1970's

- (A) Soviet firms show greater profit.
- (B) Soviet firms have less control over the free market.
- (C) Soviet firms are able to adjust to tech nological advances.
- (D) Soviet firms have some authority to fix prices.
- (E) Soviet firms are more responsive to the free market.
- 8. With which of the following statements regarding the behavior of large firms in industrialized societies would the author be most likely to agree?
 - (A) The directors of large firms will continue to anticipate the demand for products
 - (B) The directors of large firms are less interested in achieving a predictable level of profit than in achieving a large profit.
 - (C) The directors of large firms will strive to reduce the costs of their products
 - (D) Many directors of large firms believe that the government should establish the prices that will be charged for products
 - (E) Many directors of large firms believe that the price charged for products is likely to increase annually.
- 9. In the passage, the author is primarily concerned with
 - (A) predicting the consequences of a practice
 - (B) criticizing a point of view
 - (C) calling attention to recent discoveries
 - (D) proposing a topic for research
 - (E) summarizing conflicting opinions

Caffeine, the stimulant in coffee, has been called "the most widely used psychoactive substance on Earth." Synder, Daly and Bruns have recently proposed that caffeine affects behavior by countering the activity in

(5) the human brain of a naturally occurring chemical called adenosine. Adenosine normally depresses neuron firing in many areas of the brain. It apparently does this by inhibiting the release of neurotransmitters, chemicals

that carry nerve impulses from one neuron to the n

Student Bounty.com (10) Like many other agents that affect neuron firing, adenosine must first bind to specific receptors on neuronal membranes. There are at least two classes of these receptors, which have been designated A₁ and A₂. Snyder et al propose that caffeine, which is struc-

turally similar to adenosine, is able to bind to both types (15) of receptors, which prevents adenosine from attaching there and allows the neurons to fire more readily than they otherwise would.

For many years, caffeine's effects have been attri-(20) buted to its inhibition of the production of phosphodiesterase, an enzyme that breaks down the chemical called cyclic AMP.A number of neurotransmitters exert their effects by first increasing cyclic AMP concentrations in target neurons. Therefore, prolonged periods at the elevated concentrations, as might be brought about (25) by a phosphodiesterase inhibitor, could lead to a greater amount of neuron firing and, consequently, to behavioral stimulation. But Snyder et al point out that the caffeine concentrations needed to inhibit the production of phosphodiesterase in the brain are much higher than those that produce stimulation. Moreover, other compounds that block phosphodiesterase's activity are not stimulants.

To buttress their case that caffeine acts instead by preventing adenosine binding, Snyder et al compared the stimulatory effects of a series of caffeine derivatives with their ability to dislodge adenosine from its receptors in the brains of mice. "In general," they reported, "the ability of the compounds to compete at the receptors (40) correlates with their ability to stimulate locomotion in the mouse; i.e., the higher their capacity to bind at the receptors, the higher their ability to stimulate locomotion." Theophylline, a close structural relative of caffeine and the major stimulant in tea, was one of the most (45) effective compounds in both regards.

There were some apparent exceptions to the general correlation observed between adenosine-receptor binding and stimulation. One of these was a compound called

3-isobuty1-1-methylxanthine(IBMX), which bound very (50) well but actually depressed mouse locomotion. Snyder et al suggest that this is not a major stumbling block to their hypothesis. The problem is that the compound has mixed effects in the brain, a not unusual occurrence with psychoactive drugs. Even caffeine, which is generally

- (55) known only for its stimulatory effects, displays this property, depressing mouse locomotion at very low concentrations and stimulating it at higher ones.
- 1. The primary purpose of the passage is to
- (A) discuss a plan for investigation of a phenomenon that is not yet fully understood
- (B) present two explanations of a phenomenon and reconcile the differences between them
- (C) summarize two theories and suggest a third theory that overcomes the problems encountered in the first
- (D) describe an alternative hypothesis and provide evidence and arguments that support it
- (E) challenge the validity of a theory by exposing the inconsistencies and contradictions in it
- 2. Which of the following, if true, would most weaken the theory proposed by Snyder et al?
- (A) At very low concentrations in the human brain. both caffeine and theophylline tend to have depressive rather than stimulatory effects on human behavior.
- (B) The ability of caffeine derivatives at very low concentrations to dislodge adenosine from its receptors in mouse brains correlates well with their ability to stimulate mouse locomotion at these low concentrations
- (C) The concentration of cyclic AMP in target neurons in the human brain that leads to increased neuron firing can be produced by several different phosphodi esterase inhibitors in addition to caffeine.
- (D) The concentration of caffeine required to dislodge adenosine from its receptors in the human brain is much greater than the concentration that produces

- behavioral stimulation in humans.
- Student Bounty Com (E) The concentration of IBMX required to dislodge adenosine from its receptors in mouse brains is much smaller than the concentration that stimulates locomotion in the mouse.
- 3. According so Snyder et al, caffeine differs from adenosine in that caffeine
 - (A) stimulates behavior in the mouse and in humans. whereas adenosine stimulates behavior in humans
 - (B) has mixed effects in the brain, whereas adenosine has only a stimulatory effect
 - (C) increases cyclic AMP concentrations in target neurons, whereas adenosine decreases such concentrations
 - (D) permits release of neurotransmitters when it is bound to adenosine receptors, whereas adenosine inhibits such release
 - (E) inhibits both neuron firing and the production of phosphodiesterase when there is a sufficient concentration in the brain, whereas adenosine inhibits only neuron firing
- 4. In response to experimental results concerning IBMX, Snyder et al contended that it is not uncommon for psychoactive drugs to have
 - (A) mixed effects in the brain
 - (B) inhibitory effects on enzymes in the brain
 - (C) close structural relationships with caffeine
 - (D) depressive effects on mouse locomotion
 - (E) the ability to dislodge caffeine from receptors in the brain
- 5. The passage suggests that Snyder et al believe that if the older theory concerning caffeine's effects were correct, which of the following would have to be the case?
 - I .All neurotransmitters would increase the short-term concentration of cyclic AMP in target neurons.
 - II .Substances other than caffeine that inhibit the

production of phosphodiesterase would be stimulants.

- III.All concentration levels of caffeine that are high enough to produce stimulation would also inhibit the production of phosphodiesterase.
- (A) I only
- (B) I and II only
- (C) I and III only
- (D) II and III only
- (E) I, II, and III
- 6. According to Snyder et al, all of the following compounds can bind to specific receptors in the brain **EXCEPT**
 - (A) IBMX
 - (B) caffeine
 - (C) adenosine
 - (D) theophylline
 - (E) phosphodiesterase
- 7. Snyder et al suggest that caffeine's ability to bind to A₁ and A2 receptors can be at least partially attributed to which of the following?
 - (A) The chemical relationship between caffeine and phosphodiesterase
 - (B) The structural relationship between caffeine and adenosine
 - (C) The structural similarity between caffeine and neurotransmitters
 - (D) The ability of caffeine to stimulate behavior
 - (E) The natural occurrence of caffeine and adenosine in the brain
- 8. The author quotes Snyder et al in lines 38-43 most probably in order to
 - (A) reveal some of the assumptions underlying their theory
 - (B) summarize a major finding of their experiments
 - (C) point out that their experiments were limited to the
 - (D) indicate that their experiments resulted only in

- general correlations
- Student Bounty.com (E) refute the objections made by supporters of the old theory
- 9. The last paragraph of the passage performs which of the following functions?
 - (A) Describes a disconfirming experimental result and reports the explanation given by Snyder et al in an attempt to reconcile this result with their theory.
 - (B) Specifies the basis for the correlation observed by Snyder et al and presents an explanation in an attempt to make the correlation consistent with the operation of psychoactive drugs other than caffeine.
 - (C) Elaborates the description of the correlation observed by Snyder et al and suggests an additional explanation in an attempt to make the correlation consistent with the older theory.
 - (D) Reports inconsistent experimental data and describes the method Snyder et al will use to reanalyze this data.
 - (E) Provides an example of the hypothesis proposed by Snyder et al and relates this example to caffeine's properties.

Passage 11

Archaeology as a profession faces two major problems. First, it is the poorest of the poor. Only paltry sums are available for excavating and even less is available for publishing the results and preserving the sites once excavated. Yet archaeologists deal with priceless objects every day. Second, there is the problem of illegal excavation, resulting in museum-quality pieces being sold to the highest bidder.

I would like to make an outrageous suggestion that (10) would at one stroke provide funds for archaeology and reduce the amount of illegal digging. I would propose that scientific archeological expeditions and governmental authorities sell excavated artifacts on the open market. Such sales would provide substantial funds for (15) the excavation and preservation of archaeological sites

(5)

and the publication of results. At the same time, they would break the illegal excavator's grip on the market. thereby decreasing the inducement to engage in illegal activities.

- You might object that professionals excavate to (20) acquire knowledge, not money. Moreover, ancient artifacts are part of our global cultural heritage, which should be available for all to appreciate, not sold to the highest bidder. I agree. Sell nothing that has unique
- (25) artistic merit or scientific value. But, you might reply, everything that comes our of the ground has scientific value. Here we part company. Theoretically, you may be correct in claiming that every artifact has potential scientific value. Practically, you are wrong.
- I refer to the thousands of pottery vessels and ancient lamps that are essentially duplicates of one another. In one small excavation in Cyprus, archaeologists recently uncovered 2,000 virtually indistinguishable small jugs in a single courtyard, Even precious royal seal impressions
- (35) known as/melekh handles have been found in abundance---more than 4,000 examples so far.

The basements of museums are simply not large enough to store the artifacts that are likely to be discovered in the future. There is not enough money even to

- (40) catalogue the finds; as a result, they cannot be found again and become as inaccessible as if they had never been discovered. Indeed, with the help of a computer, sold artifacts could be more accessible than are the pieces stored in bulging museum basements. Prior to
- (45) sale, each could be photographed and the list of the purchasers could be maintained on the computer A purchaser could even be required to agree to return the piece if it should become needed for scientific purposes.

It would be unrealistic to suggest that illegal digging (50) would stop if artifacts were sold on the open market. But the demand for the clandestine product would be substantially reduced. Who would want an unmarked pot when another was available whose provenance was known, and that was dated stratigraphically by the professional archaeologist who excavated it?

- Student Bounty.com 1. The primary purpose of the passage is to propose
 - (A) an alternative to museum display of artifacts
 - (B) a way to curb illegal digging while benefiting the archaeological profession
 - (C) a way to distinguish artifacts with scientific value from those that have no such value
 - (D) the governmental regulation of archaeological sites
 - (E) a new system for cataloguing duplicate artifacts
- 2. The author implies that all of the following statements about duplicate artifacts are true EXCEPT:
 - (A) A market for such artifacts already exists.
 - (B) Such artifacts seldom have scientific value.
 - (C) There is likely to be a continuing supply of such artifacts.
 - (D) Museums are well supplied with examples of such
 - (E) Such artifacts frequently exceed in quality those already catalogued in museum collections.
- 3. Which of the following is mentioned in the passage as a disadvantage of storing artifacts in museum basements?
 - (A) Museum officials rarely allow scholars access to such artifacts.
 - (B) Space that could be better used for display is taken up for storage.
 - (C) Artifacts discovered in one excavation often become separated from each other.
 - (D) Such artifacts are often damaged by variations in temperature and humidity.
 - (E) Such artifacts' often remain uncatalogued and thus cannot be located once they are put in storage.
- 4. The author mentions the excavation in Cyprus (lines 31-34) to emphasize which of the following points?
 - (A) Ancient lamps and pottery vessels are less valuable, although more rare, than royal seal impressions.
 - (B) Artifacts that are very similar to each other present

- cataloguing difficulties to archaeologists.
- (C) Artifacts that are not uniquely valuable, and therefore could be sold, are available in large quantities.
- (D) Cyprus is the most important location for unearthing large quantities of salable artifacts.
- (E) Illegal sales of duplicate artifacts are wide-spread, particularly on the island of Cyprus.
- 5. The author's argument concerning the effect of the official sale of duplicate artifacts on illegal excavation is based on which of the following assumptions?
 - (A) Prospective purchasers would prefer to buy authenticated artifacts.
 - (B) The price of illegally excavated artifacts would rise.
 - (C) Computers could be used to trace sold artifacts.
 - (D) Illegal excavators would be forced to sell only duplicate artifacts.
 - (E) Money gained from selling authenticated artifacts could be used to investigate and prosecute illegal excavators.
- 6. The author anticipates which of the following initial objections to the adoption of his proposal?
 - (A) Museum officials will become unwilling to store artifacts.
 - (B) An oversupply of salable artifacts will result and the demand for them will fall.
 - (C) Artifacts that would have been displayed in public places will be sold to private collectors.
 - (D) Illegal excavators will have an even larger supply of artifacts for resale.
 - (E) Counterfeiting of artifacts will become more commonplace.
- 7. The author implies that which of the following would occur if duplicate artifacts were sold on the open market?
 - I .Illegal excavation would eventually cease completely.

- II .Cyprus would become the primary source of marketable duplicate artifacts
- III. Archaeologists would be able to publish the results of their excavations more frequently than they currently do.
- (A) I only
- (B) III only
- (C) I and II only
- (D) II and III only
- (E) I, II, and III

Federal efforts to aid minority businesses began in the 1960's when the Small Business Administration (SBA) began making federally guaranteed loans and government-sponsored management and technical assistance (5) available to minority business enterprises. While this program enabled many minority entrepreneurs to form new businesses, the results were disappointing, since managerial inexperience, unfavorable locations, and capital shortages led to high failure rates. Even 15 (10) years after the program was implemented, minority business receipts were not quite two percent of the national economy's total receipts.

Recently federal policymakers have adopted an approach intended to accelerate development of the (15) minority business sector by moving away from directly aiding small minority enterprises and toward supporting larger, growth-oriented minority firms through intermediary companies. In this approach, large corporations participate in the development of successful and stable (20) minority businesses by making use of government-sponsored venture capital. The capital is used by a participating company to establish a Minority Enterprise Small Business Investment Company or MESBIC. The MESBIC then provides capital and guidance to minority (25) businesses that have potential to become future suppliers or customers of the sponsoring company.

MESBIC's are the result of the belief that providing

- established firms with easier access to relevant management techniques and more job-specific experience, as
- (30) well as substantial amounts of capital, gives those firms a greater opportunity to develop sound business foundations than does simply making general management experience and small amounts of capital available. Further, since potential markets for the minority busi-
- (35) nesses already exist through the sponsoring companies, the minority businesses face considerably less risk in terms of location and market fluctuation. Following early financial and operating problems, sponsoring corporations began to capitalize MESBIC's far above
- (40) the legal minimum of \$500,000 in order to generate sufficient income and to sustain the quality of management needed. MESBIC'c are now emerging as increasingly important financing sources for minority enterprises.
- (45) Ironically, MESBIC staffs, which usually consist of Hispanic and Black professionals, tend to approach investments in minority firms more pragmatically than do many MESBIC directors, who are usually senior managers from sponsoring corporations. The latter
- (50) often still think mainly in terms of the "social responsibility approach" and thus seem to prefer deals that are riskier and less attractive than normal investment criteria would warrant. Such differences in viewpoint have produced uneasiness among many minority staff members,
- (55) who feel that minority entrepreneurs and businesses should be judged by established business considerations. These staff members believe their point of view is closer to the original philosophy of MESBIC's and they are concerned that, unless a more prudent course is followed, MESBIC directors may revert to policies likely to re-create the disappointing results of the original SBA approach.
- 1. Which of the following best states the central idea of the passage?
- (A) The use of MESBIC's for aiding minority entrepreneurs seems to have greater potential for

- success than does the original SBA approach.
- Student Bounty.com (B) There is a crucial difference in point of view between the staff and directors of some MESBIC's.
- (C) After initial problems with management and marketing, minority businesses have begun to expand at a steady rate.
- (D) Minority entrepreneurs wishing to form new businesses now have several equally successful federal programs on which to rely.
- (E) For the first time since 1960, large corporations are making significant contributions to the development of minority businesses.
- 2. According to the passage, the MESBIC approach differs from the SBA approach in that MESBIC's
- (A) seek federal contracts to provide markets for minority businesses
- (B) encourage minority businesses to provide markets for other minority businesses
- (C) attempt to maintain a specified rate of growth in the minority business sector
- (D) rely on the participation of large corporations to finance minority businesses
- (E) select minority businesses on the basis of their location
- 3. Which of the following does the author cite to support the conclusion that the results of the SBA program were disappointing?
- (A) The small number of new minority enterprises formed as a result of the program
- (B) The small number of minority enterprises that took advantage of the management and technical assistance offiered under the program
- (C) The small percentage of the nation's business receipts earned by minority enterprises following the programs, implementation.
- (D) The small percentage of recipient minority enterprises that were able to repay federally guaranteed loans made under the program

- (E) The small number of minority enterprises that chose to participate in the program
- 4. Which of the following statements about the SBA program can be inferred from the passage?
- (A) The maximum term for loans made to recipient businesses was 15 years.
- (B) Business loans were considered to be more useful to recipient businesses than was management and technical assistance.
- (C) The anticipated failure rate for recipient businesses was significantly lower than the rate that actually resulted.
- (D) Recipient businesses were encouraged to relocate to areas more favorable for business development.
- (E) The capitalization needs of recipient businesses were assessed and then provided for adequately.
- 5. Based on information in the passage, which of the following would be indicative of the pragmatism of MESBIC staff members?
 - I . A reluctance to invest in minority businesses that show marginal expectations of return on the investments
 - II . A desire to invest in minority businesses that produce goods and services likely to be of use to the sponsoring company
 - III. A belief that the minority business sector is best served by investing primarily in newly established businesses
 - (A) I only
 - (B) III only
 - (C) I and II only
 - (D) II and III only
 - (E) I, II and III
- 6. The author refers to the "financial and operating problems"(line 38) encountered by MESBIC's primarily in order to
 - (A) broaden the scope of the discussion to include the legal considerations of funding MESBIC'S through (A) What was the average annual amount, in dollars, of

- sponsoring companies
- Student Bounty.com (B) call attention to the fact that MESBIC's must receive adequate funding in order to function effectively
- (C) show that sponsoring companies were willing to invest only \$500,000 of government-sponsored venture capital in the original MESBIC's
- (D) compare SBA and MESBIC limits on minimum funding
- (E) refute suggestions that MESBIC's have been only marginally successful
- 7. The author's primary objective in the passage is to
 - (A) disprove the view that federal efforts to aid minority businesses have been ineffective
 - (B) explain how federal efforts to aid minority businesses have changed since the 1960's
 - (C) establish a direct link between the federal efforts to aid minority businesses made before the 1960's and those made in the 1980's
 - (D) analyze the basis for the belief that job-specific experience is more useful to minority businesses than is general management experience
 - (E) argue that the "social responsibility approach" to aiding minority businesses is superior to any other approach
- 8. It can be inferred from the passage that the attitude of some MESBIC staff members toward the investments preferred by some MESBIC directors can best be described as
 - (A) defensive
 - (B) resigned
 - (C) indifferent
 - (D) shocked
 - (E) disapproving
- 9. The passage provides information that would answer which of the following questions?

- minority business receipts before the SBA strategy was implemented?
- (B) What locations are considered to be unfavorable for minority businesses?
- (C) What is the current success rate for minority businesses that are capitalized by MESBIC's?
- (D) How has the use of federal funding for minority businesses changed since the 1960's?
- (E) How do minority businesses apply to participate in a MESBIC program?

The majority of successful senior managers do not closely follow the classical rational model of first clarifying goals, assessing the problem, formulating options, estimating likelihoods of success, making a decision, (5) and only then taking action to implement the decision. Rather, in their day-by-day tactical maneuvers, these senior executives rely on what is vaguely termed "intuition" to mangage a network of interrelated problems that require them to deal with ambiguity, inconsistency, (10) novelty, and surprise; and to integrate action into the process to thinking.

Generations of writers on management have recognized that some practicing managers rely heavily on intuition. In general, however, such writers display a site of rationality: others view it as an excuse for capriciousness.

Isenberg's recent research on the cognitive processes 1 of senior managers reveals that managers' intuition is (20) neither of these. Rather, senior managers use intuition in at least five distinct ways. First, they intuitively sense when a problem exists. Second, managers rely on intuition to perform well-learned behavior patterns rapidly. This intuition is not arbitrary or irrational, but is based on years of painstaking practice and hands-on experience that build skills. A third function of intuition is to synthesize isolated bits of data and practice into an inte-

Student Bounty Com grated picture, often in an "Aha!" experience. For some managers use intuition as a check on the resul-(30) of more rational analysis. Most senior executives are familiar with the formal decision analysis models and tools, and those who use such systematic methods for reaching decisions are occasionally leery of solutions suggested by these methods which run counter to their 35) sense of the correct course of action. Finally, managers can use intuition to bypass in-depth analysis and move rapidly to engender a plausible solution. Used in this way, intuition is an almost instantaneous cognitive process in which a manager recognizes familiar patterns.

One of the implications of the intuitive style of execu-40) tive management is that "thinking" is inseparable from acting. Since managers often "know" what is right before they can analyze and explain it, they frequently act first and explain later. Analysis is inextricably tied (45) to action in thinking/acting cycles, in which managers develop thoughts about their companies and organizations not by analyzing a problematic situation and then acting, but by acting and analyzing in close concert.

Given the great uncertainty of many of the manage-(50) ment issues that they face, senior managers often instigate a course of action simply to learn more about an issue. They then use the results of the action to develop a more complete understanding of the issue. One implication of thinking/acting cycles is that action is often poor grasp of what intuition is. Some see it as the oppo-(55) part of defining the problem, not just of implementing the solution.

- According to the passage, senior managers use intuition in all of the following ways EXCEPT to
 - (A) speed up of the creation of a solution to a problem
 - (B) identify a problem
 - (C) bring together disparate facts
 - (D) stipulate clear goals
 - (E) evaluate possible solutions to a problem
- 2. The passage suggests which of the following about the "writers on management" mentioned in line 12?

- (A) They have criticized managers for not following the classical rational model of decision analysis.
- (B) They have not based their analyses on a sufficiently large sample of actual managers.
- (C) They have relied in drawing their conclusions on what managers say rather than on what managers do.
- (D) They have misunderstood how managers use intuition in making business decisions.
- (E) They have not acknowledged the role of intuition in managerial practice.
- 3. Which of the following best exemplifies "an 'Aha!' experience" (line 28) as it is presented in the passage?
 - (A) A manager risks taking an action whose outcome is unpredictable to discover whether the action changes the problem at hand.
 - (B) A manager performs well-learned and familiar behavior patterns in creative and uncharacteristic ways to solve a problem.
 - (C) A manager suddenly connects seemingly unrelated facts and experiences to create a pattern relevant to the problem at hand.
 - (D) A manager rapidly identifies the methodology used to compile data yielded by systematic analysis.
 - (E) A manager swiftly decides which of several sets of tactics to implement in order to deal with the contingencies suggested by a problem.
- 4. According to the passage, the classical model of decision analysis includes all of the following EXCEPT
 - (A) evaluation of a problem
 - (B) creation of possible solutions to a problem
 - (C) establishment of clear goals to be reached by the decision
 - (D) action undertaken in order to discover more information about a problem
 - (E) comparison of the probable effects of different solutions to a problem
- 5. It can be inferred from the passage that which of the

- following would most probably be one major difference in behavior between Manager X, who uses intuition to reach decisions, and Manager Y, who uses only formal decision analysis?
- (A) Manager X analyzes first and then acts; Manager Y does not.
- (B) Manager X checks possible solutions to a problem by systematic analysis; Manager Y does not
- (C) Manager X takes action in order to arrive at the solution to a problem; Manager Y does not.
- (D) Manager Y draws on years of hands-on experience in creating a solution to a problem; Manager X does not.
- (E) Manger Y depends on day-to-day tactical maneuvering; manager X does not.
- 6. It can be inferred from the passage that "thinking/acting cycles" (line 45) in managerial practice would be likely to result in which of the following?
 - I . A manager analyzes a network of problems and then acts on the basis of that analysis.
 - II . A manager gathers data by acting and observing the effects of action.
 - III. A manager takes action without being able to articulate reasons for that particular action.
 - (A) I only
 - (B) II only
 - (C) I and II only
 - (D) II and III only
 - (E) I, II, and III
- 7. The passage provides support for which of the following statements?
 - (A) Managers who rely on intuition are more successful than those who rely on formal decision analysis.
 - (B) Managers cannot justify their intuitive decisions.
 - (C) Managers' intuition works contrary to their rational and analytical skills
 - (D) Logical analysis of a problem increases the

- number of possible solutions.
- (E) Intuition enables managers to employ their practical experience more efficiently.
- 8. Which of the following best describes the organization of the first paragraph of the passage?
- (A) An assertion is made and a specific supporting example is given.
- (B) A conventional model is dismissed and an alternative introduced.
- (C) The results of recent research are introduced and summarized
- (D) Two opposing points of view are presented and evaluated.
- (E) A widely accepted definition is presented and qualified.

Nearly a century ago, biologists found that if they separated an invertebrate animal embryo into two parts at an early stage of its life, it would survive and develop as two normal embryos. This led them to believe that the (5) cells in the early embryo are undetermined in the sense (45) histones move into the cell nucleus, where section of that each cell has the potential to develop in a variety of different ways. Later biologists found that the situation was not so simple. It matters in which plane the embryo is cut. If it is cut in a plane different from the one used by the early investigators, it will not form two whole embryos.

A debate arose over what exactly was happening. Which embryo cells are determined, just when do the 1. The passage is most probably directed at which kind of become irreversibly committed to their fates, and what (15) are the "morphogenetic determinants" that tell a cell what to become? But the debate could not be resolved because no one was able to ask the crucial questions in a form in which they could be pursued productively. Recent discoveries in molecular biology, however, have opened up prospects for a resolution of the debate. Now investigators think they know at least some of the

Student Bounty Com molecules that act as morphogenetic determinant early development. They have been able o show that in a sense, cell determination begins even before an egg (25) is fertilized.

Studying sea urchins, biologist Paul Gross found that an unfertilized egg contains substances that function as morphogenetic determinants. They are located in the cytoplasm of the egg cell; i.e., in that part of the (30) cell's protoplasm that lies outside of the nucleus. In the unfertilized egg, the substances are inactive and are not distributed homogeneously. When the egg is fertilized, the substances become active and, presumably, govern the behavior of the genes they interact with. Since the (35) substances are unevenly distributed in the egg, when the fertilized egg divides, the resulting cells are different from the start and so can be qualitatively different in their own gene activity.

The substances that Gross studied are maternal (40) messenger RNA's --products of certain of the maternal genes. He and other biologists studying a wide variety of organisms have found that these particular RNA's direct, in large part, the synthesis of histones, a class of proteins that bind to DNA. Once synthesized, the DNA wrap around them to form a structure that resembles beads, or knots, on a string. The beads are DNA segments wrapped around the histones; the string is the intervening DNA. And it is the structure of these beaded (50) DNA strings that guides the fate of the cells in which they are located.

- audience?
 - (A) State legislators deciding about funding levels for a state-funded biological laboratory
 - (B) Scientists specializing in molecular genetics
 - (C) Readers of an alumni newsletter published by the college that Paul Gross attended
 - (D) Marine biologists studying the processes that give rise to new species

- (E) Undergraduate biology majors in a molecular biology course
- 2. It can be inferred from the passage that the morphogenetic determinants present in the early embryo are
- (A) located in the nucleus of the embryo cells
- (B) evenly distributed unless the embryo is not developing normally
- (C) inactive until the embryo cells become irreversibly committed to their final function
- (D) identical to those that were already present in the unfertilized egg
- (E) present in larger quantities than is necessary for the development of a single individual
- 3. The main topic of the passage is
- (A) the early development of embryos of lower marine organisms
- (B) the main contribution of modern embryology to molecular biology
- (C) the role of molecular biology in disproving older theories of embryonic development
- (D) cell determination as an issue in the study of embryonic development
- (E) scientific dogma as a factor in the recent debate over 7. According to the passage, the morphogenetic the value of molecular biology
- 4. According to the passage, when biologists believed that the cells in the early embryo were undetermined, they made which of the following mistakes?
- (A) They did not attempt to replicate the original experiment of separating an embryo into two parts.
- (B) They did not realize that there was a connection between the issue of cell determination and the outcome of the separation experiment.
- (C) They assumed that the results of experiments on embryos did not depend on the particular animal species used for such experiments.
- (D) They assumed that it was crucial to perform the

- Student Bounty.com separation experiment at an early stage in the embryo's life.
- (E) They assumed that different ways of separating an embryo into two parts would be equivalent as far as the fate of the two parts was concerned.
- 5. It can be inferred from the passage that the initial production of histones after an egg is fertilized takes place
 - (A) in the cytoplasm
 - (B) in the maternal genes
 - (C) throughout the protoplasm
 - (D) in the beaded portions of the DNA strings
 - (E) in certain sections of the cell nucleus
- 6. It can be inferred from the passage that which of the following is dependent on the fertilization of an egg?
 - (A) Copying of maternal genes to produce maternal messenger RNA's
 - (B) Sythesis of proteins called histones
 - (C) Division of a cell into its nucleus and the cytoplasm
 - (D) Determination of the egg cell's potential for division
 - (E) Generation of all of a cell's morphogenetic determinants
- determinants present in the unfertilized egg cell are which of the following?
 - (A) Proteins bound to the nucleus
 - (B) Histones
 - (C) Maternal messenger RNA's
 - (D) Cytoplasm
 - (E) Nonbeaded intervening DNA
- 8. The passage suggests that which of the following plays a role in determining whether an embryo separated into two parts will two parts will develop as two normal embryos?
 - I . The stage in the embryo's life at which the separation occurs

- II . The instrument with which the separations is accomplished
- III. The plane in which the cut is made that separates the embryo
- (A) I only
- (B) II only
- (C) I and II.only
- (D) I and III.only
- (E) I, II, and III
- 9. Which of the following circumstances is most comparable to the impasse biologists encountered in trying to resolve the debate about cell determination (lines 12-18)?
 - (A) The problems faced by a literary scholar who wishes to use original source materials that are written in an unfamiliar foreign language
 - (B) The situation of a mathematician who in preparing a proof of a theorem for publication detects a reasoning error in the proof
 - (C) The difficulties of a space engineer who has to design equipment to function in an environment in which it cannot first be tested
 - (D) The predicament of a linguist trying to develop a theory of language acquisition when knowledge of the structure of language itself is rudimentary at best
 - (E) The dilemma confronting a foundation when the funds available to it are sufficient to support one of two equally deserving scientific projects but not both

In the two decades between 1910 and 1930, over ten percent to the Black population of the United States left the South, where the preponderance of the Black population had been located, and migrated to northern (5) states, with the largest number moving, it is claimed, between 1916 and 1918. It has been frequently assumed, but not proved, that the majority of the migrants in what has come to be called the Great Migration came

from rural areas and were motivated by two concurcion factors: the collapse of the cotton industry following the boll weevil infestation, which began in 1898, and increased demand in the North for labor following the cessation of European immigration caused by the outbreak of the First World War in 1914. This assumption has led to the conclusion that the migrants' subsequent lack of economic mobility in the North is tied to rural background, a background that implies unfamiliarity with urban living and a lack of industrial skills.

But the question of who actually left the South has

(20) never been rigorously investigated. Although numerous investigations document an exodus from rural southern areas to southern cities prior to the Great Migration. no one has considered whether the same migrants then moved on to northern cities. In 1910 over 600,000
(25) Black workers, or ten percent of the Black work force, reported themselves to be engaged in "manufacturing and mechanical pursuits," the federal census category roughly encompassing the entire industrial sector. The Great Migration could easily have been made up entirely (30) of this group and their families. It is perhaps surprising to argue that an employed population could be enticed to move, but an explanation lies in the labor conditions then prevalent in the South.

About thirty-five percent of the urban Black popu(35) lation in the South was engaged in skilled trades. Some
were from the old artisan class of slavery-blacksmiths.
masons, carpenters-which had had a monopoly of
certain trades, but they were gradually being pushed
out by competition, mechanization, and obsolescence,
(40) The remaining sixty-five percent, more recently urbanized, worked in newly developed industries---tobacco.
lumber, coal and iron manufacture, and railroads.
Wages in the South, however, were low, and Black
workers were aware, through labor recruiters and the
(45)Black press, that they could earn more even as unskilled
workers in the North than they could as artisans in the
South. After the boll weevil infestation, urban Black
workers faced competition from the continuing influx

of both Black and White rural workers, who were driven (50) to undercut the wages formerly paid for industrial jobs. Thus, a move north would be seen as advantageous to a group that was already urbanized and steadily employed, and the easy conclusion tying their subsequent economic problems in the North to their rural background comes into question.

- 1. The author indicates explicitly that which of the following records has been a source of information in her investigation?
 - (A) United States Immigration Service reports from 1914 to 1930
 - (B) Payrolls of southern manufacturing firms between 1910 and 1930
 - (C) The volume of cotton exports between 1898 and 1910
 - (D) The federal census of 1910
 - (E) Advertisements of labor recruiters appearing in southern newspapers after 1910
- 2. In the passage, the author anticipates which of the following as a possible objection to her argument?
- (A) It is uncertain how many people actually migrated during the Great Migration.
- (B) The eventual economic status of the Great Migration migrants has not been adequately traced.
- (C) It is not likely that people with steady jobs would have reason to move to another area of the country.
- (D) It is not true that the term "manufacturing and mechanical pursuits" actually encompasses the entire industrial sector.
- (E) Of the Black workers living in southern cities, only those in a small number of trades were threatened by obsolescence.
- 3. According to the passage, which of the following is true of wages in southern cities in 1910?
 - (A) They were being pushed lower as a result of increased competition.

- (B) They had begun t to rise so that southern industry could attract rural workers.
- (C) They had increased for skilled workers but decreased for unskilled workers.
- (D) They had increased in large southern cities but decreased in small southern cities.
- (E) They had increased in newly developed industries but decreased in the older trades.
- 4. The author cites each of the following as possible influences in a Black worker's decision to migrate north in the Great Migration EXCEPT
 - (A) wage levels in northern cities
 - (B) labor recruiters
 - (C) competition from rural workers
 - (D) voting rights in northern states
 - (E) the Black press
- 5. It can be inferred from the passage that the "easy conclusion" mentioned in line 53 is based on which of the following assumptions?
 - (A) People who migrate from rural areas to large cities usually do so for economic reasons.
 - (B) Most people who leave rural areas to take jobs in cities return to rural areas as soon as it is financially possible for them to do so.
 - (C) People with rural backgrounds are less likely to succeed economically in cities than are those with urban backgrounds.
 - (D) Most people who were once skilled workers are not willing to work as unskilled workers.
 - (E) People who migrate from their birthplaces to other regions of country seldom undertake a second migration.
- 6. The primary purpose of the passage is to
 - (A) support an alternative to an accepted methodology
 - (B) present evidence that resolves a contradiction
 - (C) introduce a recently discovered source of information

- (D) challenge a widely accepted explanation
- (E) argue that a discarded theory deserves new attention
- 7. According to information in the passage, which of the following is a correct sequence of groups of workers, from highest paid to lowest paid, in the period between 1910 and 1930?
 - (A) Artisans in the North; artisans in the South; unskilled workers in the North; unskilled workers in the South
 - (B) Artisans in the North and South; unskilled workers in the North; unskilled workers in the South
 - (C) Artisans in the North; unskilled workers in the North; artisans in the South
 - (D) Artisans in the North and South; unskilled urban workers in the North; unskilled rural workers in the South
 - (E) Artisans in the North and South, unskilled rural workers in the North and South; unskilled urban workers in the North and South
- 8. The material in the passage would be most relevant to a long discussion of which of the following topics?
 - (A) The reasons for the subsequent economic difficulties of those who participated in the Great Migration
 - (B) The effect of migration on the regional economies of the United States following the First World War
 - (C) The transition from a rural to an urban existence for those who migrated in the Great Migration
 - (D) The transformation of the agricultural South following the boll weevil infestation
 - (E) The disappearance of the artisan class in the United States as a consequence of mechanization in the early twentieth century

In 1896 a Georgia couple suing for damages in the accidental death of their two year old was told that since the child had made no real economic contribution to the family, there was no liability for damages. In contrast,

(5) less than a century later, in 1979, the parents of a three year old sued in New York for accidental-death damages and won an award of \$750,000.

The transformation in social values implicit in juxtaposing these two incidents is the subject of Viviana (10) Zelizer's excellent book, *Pricing the Priceless Child*. During the nineteenth century, she argues, the concept of the "useful" child who contributed to the family economy gave way gradually to the present-day notion of the "useless" child who, though producing no income (15) for, and indeed extremely costly to, its parents, is yet considered emotionally "priceless." Well established among segments of the middle and upper classes by the mid-1800's, this new view of childhood spread throughout society in the iate-nineteenth and early-twentieth (20) centuries as reformers introduced child-labor regulations and compulsory education laws predicated in part on the assumption that a child's emotional value made child labor taboo.

For Zelizer the origins of this transformation were (25) many and complex. The gradual erosion of children's productive value in a maturing industrial economy, the decline in birth and death rates, especially in child mortality, and the development of the companionate family (a family in which members were united by (30) explicit bonds of love rather than duty) were all factors critical in changing the assessment of children's worth. Yet "expulsion of children from the 'cash nexus,'... although clearly shaped by profound changes in the economic, occupational, and family structures," Zelizer (35) maintains. "was also part of a cultural process 'of sacralization' of children's lives." Protecting children from the crass business world became enormously important for late-nineteenth-century middle-class Americans, she suggests; this sacralization was a way of resisting what (40) they perceived as the relentless corruption of human values by the marketplace.

In stressing the cultural determinants of a child's worth. Zelizer takes issue with practitioners of the new "sociological economics," who have analyzed such tradi-

- (45) tionally sociological topics as crime, marriage, education, and health solely in terms of their economic determinants. Allowing only a small role for cultural forces in the form of individual "preferences," these sociologists tend to view all human behavior as directed primarily by
- (50) the principle of maximizing economic gain. Zelizer is highly critical of this approach, and emphasizes instead the opposite phenomenon: the power of social values to transform price. As children became more valuable in emotional terms, she argues, their "exchange" or " sur-
- (55) render" value on the market, that is, the conversion of their intangible worth into cash terms, became much greater.
- It can be inferred from the passage that accidental-death damage awards in America during the nineteenth century tended to be based principally on the
 - (A) earnings of the person at time of death
 - (B) wealth of the party causing the death
 - (C) degree of culpability of the party causing the death
 - (D) amount of money that had been spent on the person killed
 - (E) amount of suffering endured by the family of the person killed
- 2. It can be inferred from the passage that in the early 1800's children were generally regarded by their families as individuals who
- (A) needed enormous amounts of security and affection
- (B) required constant supervision while working
- (C) were important to the economic well-being of a family
- (D) were unsuited to spending long hours in school
- (E) were financial burdens assumed for the good of society
- 3. which of the following alternative explanations of the change in the cash value of children would be most likely to be put forward by sociological economists as they are described in the passage?

- (A) The cash value of children rose during the nineteenth century because parents began to increase their emotional investment in the upbringing of their children.
- (B) The cash value of children rose during the nineteenth century because their expected earnings over the course of a lifetime increased greatly.
- (C) The cash value of children rose during the nineteenth century because the spread of humanitarian ideals resulted in a wholesale reappraisal of the worth of an individual
- (D) The cash value of children rose during the nineteenth century because compulsory education laws reduced the supply, and thus raised the costs, of available child labor.
- (E) The cash value of children rose during the nineteenth century because of changes in the way negligence law assessed damages in accidentaldeath cases.
- 4. The primary purpose of the passage is to
 - (A) review the literature in a new academic subfield
 - (B) present the central thesis of a recent book
 - (C) contrast two approaches to analyzing historical change
 - (D) refute a traditional explanation of a social phenomenon
 - (E) encourage further work on a neglected historical topic
- 5. It can be inferred from the passage that which of the following statements was true of American families over the course of the nineteenth century?
 - (A) The average size of families grew considerably
 - (B) The percentage of families involved in industrial work declined dramatically.
 - (C) Family members became more emotionally bonded to one another.
 - (D) Family members spent an increasing amount of time working with each other.

- (E) Family members became more economically dependent on each other.
- Zelizer refers to all of the following as important influences in changing the assessment of children's worth EXCEPT changes in
 - (A) the mortality rate
 - (B) the nature of industry
 - (C) the nature of the family
 - (D) attitudes toward reform movements
 - (E) attitudes toward the marketplace
- 7. Which of the following would be most consistent with the practices of sociological economics as these practices are described in the passage?
 - (A) Arguing that most health-care professionals enter the field because they believe it to be the most socially useful of any occupation
 - (B) Arguing that most college students choose majors that they believe will lead to the most highly paid jobs available to them
 - (C) Arguing that most decisions about marriage and divorce are based on rational assessments of the likelihood that each partner will remain committed to the relationship
 - (D) Analyzing changes in the number of people enrolled in colleges and universities as a function of changes in the economic health of these institutions
 - (E) Analyzing changes in the ages at which people get married as a function of a change in the average number of years that young people have lived away from their parents

Prior to 1975, union efforts to organize public-sector clerical workers, most of whom are women, were somewhat limited. The factors favoring unionization drives seem to have been either the presence of large numbers

Student Bounty.com (5) of workers, as in New York City, to make it worth the effort, or the concentration of small numbers in one of two locations, such as a hospital, to make it relatively easy, Receptivity to unionization on the workers, part was also a consideration, but when there were large (10) numbers involved or the clerical workers were the only unorganized group in a jurisdiction, the multioccupational unions would often try to organize them regardless of the workers' initial receptivity. The strategic reasoning was based, first, on the concern that politi-(15) cians and administrators might play off unionized against nonunionized workers, and, second, on the conviction that a fully unionized public work force meant power, both at the bargaining table and in the legislature. In localities where clerical workers were few (20) in number, were scattered in several workplaces, and expressed no interest in being organized, unions more often than not ignored them in the pre-1975 period.

But since the mid-1970's, a different strategy has emerged. In 1977, 34 percent of government clerical (25) workers were represented by a labor organization, compared with 46 percent of government professionals, 44 percent of government blue-collar workers, and 41 percent of government service workers, Since then, however, the biggest increases in public-sector unionization have been among clerical workers. Between 1977 and 1980, the number of unionized government workers in blue-collar and service occupations increased only about 1.5 percent, while in the white-collar occupations the increase was 20 percent and among clerical workers (35) in particular, the increase was 22 percent.

What accounts for this upsurge in unionization among clerical workers? First, more women have entered the work force in the past few years, and more of them plan to remain working until retirement age. Consequently, they are probably more concerned than their predecessors were about job security and economic benefits. Also, the women's movement has succeeded in legitimizing the economic and political activism of women on their own behalf, thereby producing a more positive atti-

- (45) tude toward unions. The absence of any comparable increase in unionization among private-sector clerical workers, however, identifies the primary catalyst-the structural change in the multioccupational public-sector unions themselves. Over the past twenty years, the occu-
- (50) pational distribution in these unions has been steadily shifting from predominantly blue-collar to predominantly white-collar. Because there are far more women in white-collar jobs, an increase in the proportion of female members has accompanied the occupational shift
- (55) and has altered union policy-making in favor of organizing women and addressing women's issues.
- 1. According to the passage, the public-sector workers who were most likely to belong to unions in 1977 were
 - (A) professionals
 - (B) managers
 - (C) clerical workers
 - (D) service workers
 - (E) blue-collar workers
- The author cites union efforts to achieve a fully unionized work force (line 13-19) in order to account for why
 - (A) politicians might try to oppose public-sector union organizing
 - (B) public-sector unions have recently focused on organizing women
 - (C) early organizing efforts often focused on areas where there were large numbers of workers
 - (D) union efforts with regard to public-sector clerical workers increased dramatically after 1975
 - (E) unions sometimes tried to organize workers regardless of the workers' initial interest in unionization
 - 3. The author's claim that, since the mid-1970's, a new strategy has emerged in the unionization of public-sector clerical workers (line 23) would be strengthened if the author

- (A) described more fully the attitudes of clerical work toward labor unions
- (B) compared the organizing strategies employed by private-sector unions with those of public-sector unions
- (C) explained why politicians and administrators sometimes oppose unionization of clerical workers
- (D) indicated that the number of unionized public-sector clerical workers was increasing even before the mid-1970's
- (E) showed that the factors that favored unionization drives among these workers prior to 1975 have decreased in importance
- 4. According to the passage, in the period prior to 1975, each of the following considerations helped determine whether a union would attempt to organize a certain group of clerical workers EXCEPT
 - (A) the number of clerical workers in that group
 - (B) the number of women among the clerical workers in that group
 - (C) whether the clerical workers in that area were concentrated in one workplace or scattered over several workplaces
 - (D) the degree to which the clerical workers in that group were interested in unionization
 - (E) whether all the other workers in the same jurisdiction as that group of clerical workers were unionized
- 5. The author states that which of the following is a consequence of the women's movement of recent years?
 - (A) An increase in the number of women entering the work force
 - (B) A structural change in multioccupational publicsector unions
 - (C) A more positive attitude on the part of women toward unions
 - (D) An increase in the proportion of clerical workers

that are women

- (E) An increase in the number of women in administrative positions
- 6. The main concern of the passage is to
 - (A) advocate particular strategies for future efforts to organize certain workers into labor unions
 - (B) explain differences in the unionized proportions of various groups of public-sector workers
 - (C) evaluate the effectiveness of certain kinds of labor unions that represent public-sector workers
 - (D) analyzed and explain an increase in unionization among a certain category of workers
 - (E) describe and distinguish strategies appropriate to organizing different categories of workers
- 7. The author implies that if the increase in the number of women in the work force and the impact of the women's so ciently precise chronology of the ice ages with which movement were the main causes of the rise in unionization of public-sector clerical workers, then
 - (A) more women would hold administrative positions in unions
 - (B) more women who hold political offices would have positive attitudes toward labor unions
 - (C) there would be an equivalent rise in unionization of private-sector clerical workers
 - (D) unions would have shown more interest than they have in organizing women
 - (E) the increase in the number of unionized publicsector clerical workers would have been greater than it has been
- 8. The author suggests that it would be disadvantageous to a union if
 - (A) many workers in the locality were not unionized
 - (B) the union contributed to political campaigns
 - (C) the union included only public-sector workers
 - (D) the union included workers from several iurisdictions
 - (E) the union included members from only a few

occupations

- Student Bounty.com 9. The author implies that, in comparison with working women today, women working in the years prior to the mid-1970's showed a greater tendency to
 - (A) prefer smaller workplaces
 - (B) express a positive attitude toward labor unions
 - (C) maximize job security and economic benefits
 - (D) side with administrators in labor disputes
 - (E) quit working prior of retirement age

Passage 18

Milankovitch proposed in the early twentieth century that the ice ages were caused by variations in the Earth's orbit around the Sun. For sometime this theory was considered untestable, largely because there was no suffithe orbital variations could be matched.

To establish such a chronology it is necessary to determine the relative amounts of land ice that existed at various times in the Earth's past. A recent discovery (10) makes such a determination possible: relative land-ice volume for a given period can be deduced from the ratio of two oxygen isotopes, 16 and 18, found in ocean sediments. Almost all the oxygen in water is oxygen 16, but a few molecules out of every thousand incorporate the (15) heavier isotope 18. When an ice age begins, the continental ice sheets grow, steadily reducing the amount of water evaporated from the ocean that will eventually return to it. Because heavier isotopes tend to be left behid when water evaporates from the ocean surfaces, (20) the remaining ocean water becomes progressively enriched in oxygen 18. The degree of enrichment can

- be determined by analyzing ocean sediments of the period, because these sediments are composed of calcium carbonate shells of marine organisms, shells that were
- (25) constructed with oxygen atoms drawn from the surrounding ocean. The higher the ratio of oxygen 18 to oxygen 16 in a sedimentary specimen, the more land ice

there was when the sediment was laid down.

As an indicator of shifts in the Earth's climate, the (30) isotope record has two advantages. First, it is a global record: there is remarkably little variation in isotope ratios in sedimentary specimens taken from different continental locations. Second, it is a more continuous record than that taken from rocks on land. Because of (35) these advantages, sedimentary evidence can be dated with sufficient accuracy by radiometric methods to establish a precise chronology of the ice ages. The dated isotope record shows that the fluctuations in global ice volume over the past several hundred thousand years (40) have a pattern: an ice age occurs roughly once every 100,000 years. These data have established a strong connection between variations in the Earth's orbit and

However, it is important to note that other factors, (45) such as volcanic particulates or variations in the amount of sunlight received by the Earth, could potentially have affected the climate. The advantage of the Milankovitch theory is that it is testable: changes in the Earth's orbit can be calculated and dated by applying Newton's laws (50) of gravity to progressively earlier configurations of the bodies in the solar system. Yet the lack of information about other possible factors affecting global climate does not make them unimportant.

the periodicity of the ice ages.

- 1. In the passage, the author is primarily interested in
 - (A) suggesting an alternative to an outdated research method
 - (B) introducing a new research method that calls an accepted theory into question
 - (C) emphasizing the instability of data gathered from the application of a new scientific method
 - (D) presenting a theory and describing a new method to test that theory
 - (E) initiating a debate about a widely accepted theory
- 2. The author of the passage would be most likely to agree with which of the following statements about

the Milankovitch theory?

- (A) It is the only possible explanation for the ice ages
- Student Bounty.com (B) It is too limited to provide a plausible explanation for the ice ages, despite recent research findings.
- (C) It cannot be tested and confirmed until further research on volcanic activity is done.
- (D) It is one plausible explanation, though not the only one, for the ice ages.
- (E) It is not a plausible explanation for the ice ages, although it has opened up promising possibilities for future research.
- 3. It can be inferred from the passage that the isotope record taken from ocean sediments would be less useful to researchers if which of the following were true?
 - (A) It indicated that lighter isotopes of oxygen predominated at certain times.
 - (B) It had far more gaps in its sequence than the record taken from rocks on land.
 - (C) It indicated that climate shifts did not occur every 100,000 years.
 - (D) It indicated that the ratios of oxygen 16 and oxygen 18 in ocean water were not consistent with those found in fresh water.
 - (E) It stretched back for only a million years.
- 4. According to the passage, which of the following is true of the ratios of oxygen isotopes in ocean sediments?
 - (A) They indicate that sediments found during an ice age contain more calcium carbonate than sediments formed at other times.
 - (B) They are less reliable than the evidence from rocks on land in determining the volume of land ice.
 - (C) They can be used to deduce the relative volume of land ice that was present when the sediment was laid down.
 - (D) They are more unpredictable during an ice age than in other climatic conditions.
 - (E) They can be used to determine atmospheric conditions at various times in the past.

- 5. It can be inferred from the passage that precipitation formed from evaporated ocean water has
 - (A) the same isotopic ratio as ocean water
 - (B) less oxygen 18 than does ocean water
 - (C) less oxygen 18 than has the ice contained in continental ice sheets
 - (D) a different isotopic composition than has precipitation formed from water on land
 - (E) more oxygen 16 than has precipitation formed from fresh water
- 6. According to the passage, which of the following is (are) true of the ice ages?
 - I . The last ice age occurred about 25,000 years ago.
 - II. Ice ages have lasted about 10,000 years for at least the last several hundred thousand years.
 - III. Ice ages have occurred about every 100,000 years for at least the last several hundred thousand years.
 - (A) I only
 - (B) II only
 - (C) III only
 - (D) I and only
 - (E) I, II and III
- 7. It can be inferred from the passage that calcium carbonate shells
 - (A) are not as susceptible to deterioration as rocks
 - (B) are less common in sediments formed during an ice age
 - (C) are found only in areas that were once covered by land ice
 - (D) contain radioactive material that can be used to determine a sediment's isotopic composition
 - (E) reflect the isotopic composition of the water at the time the shells were formed
- 8. The purpose of the last paragraph of the passage is to
 - (A) offer a note of caution
 - (B) introduce new evidence

- (C) present two recent discoveries
- Student Bounty.com (D) summarize material in the preceding paragraphs
- (E) offer two explanations for a phenomenon
- 9. According to the passage, one advantage of studying the isotope record of ocean sediments is that it
 - (A) corresponds with the record of ice volume taken from rocks on land
 - (B) shows little variation in isotope ratios when samples are taken from different continental locations
 - (C) corresponds with predictions already made by climatologists and experts in other fields
 - (D) confirms the record of ice volume initially established by analyzing variations in volcanic emissions
 - (E) provides data that can be used to substantiate records concerning variations in the amount of sunlight received by the Earth

In contrast to traditional analyses of minority business, the sociological analysis contends that minority business ownership is a group-level phenomenon, in that it is largely dependent upon social-group resources for

- (5) its development. Specifically, this analysis indicates that support networks play a critical role in starting and maintaining minority business enterprises by providing owners with a range of assistance, from the informal encouragement of family members and friends to
- (10) dependable sources of labor and clientele from the owner's ethnic group. Such self-help networks, which encourage and support ethnic minority entrepreneurs, consist of "primary" institutions, those closest to the individual in shaping his or her behavior and beliefs.
- (15) They are characterized by the face-to-face association and cooperation of persons united by ties of mutual concern. They form an intermediate social level between the individual and larger "secondary" institutions based on impersonal relationships. Primary institutions

(20) comprising the support network include kinship, peer, and neighborhood or community subgroups.

A major function of self-help networks is financial support. Most scholars agree that minority business owners have depended primarily on family funds and (25) ethnic community resources for investment capital.

Personal savings have been accumulated, often through frugal living habits that require sacrifices by the entire family and are thus a product of long-term family financial behavior. Additional loans and gifts from relatives.

- (30) forthcoming because of group obligation rather than narrow investment calculation, have supplemented personal savings. Individual entrepreneurs do not necessarily rely on their kin because they cannot obtain financial backing from commercial resources. They may actu-
- (35) ally avoid banks because they assume that commercial institutions either cannot comprehend the special needs of minority enterprise or charge unreasonably high interest rates.

Within the larger ethnic community, rotating credit (40) associations have been used to raise capital. These associations are informal clubs of friends and other trusted members of the ethnic group who make regular contributions to a fund that is given to each contributor in rotation. One author estimates that 40 percent of New

- (45)York Chinatown firms established during 1900-1950 utilized such associations as their initial source of capital. However, recent immigrants and third or fourth generations of older groups now employ rotating credit associations only occasionally to raise investment funds.
- (50) Some groups, like Black Americans, found other means of financial support for their entrepreneurial efforts. The first Black-operated banks were created in the late nineteenth century as depositories for dues collected from fraternal or lodge groups, which themselves had sprung
- (55) from Black churches. Black banks made limited investments in other Black enterprises. Irish immigrants in American cities organized many building and loan associations to provide capital for home construction and purchase. They, in turn, provided work for many Irish

- (60) home-building contractor firms. Other ethnic and minority groups followed similar practices in founding ethnic-directed financial institutions.
- 1. Based on the information in the passage. it would be LEAST likely for which of the following persons to be part of a self-help network?
 - (A) The entrepreneur's childhood friend
 - (B) The entrepreneur's aunt
 - (C) The entrepreneur's religious leader
 - (D) The entrepreneur's neighbor
 - (E) The entrepreneur's banker
- 2. Which of the following illustrates the working of a self-help support network, as such networks are described in the passage?
 - (A) A public high school offers courses in book-keeping and accounting as part of its open-enrollment adult education program.
 - (B) The local government in a small city sets up a program that helps teen-agers find summer jobs.
 - (C) A major commercial bank offers low-interest loans to experienced individuals who hope to establish their own businesses.
 - (D) A neighborhood-based fraternal organization develops a program of on-the-job training for its members and their friends.
 - (E) A community college offers country residents training programs that can lead to certification in a variety of technical trades.
- 3. Which of the following can be inferred from the passage about rotating credit associations?
 - (A) They were developed exclusively by Chinese immigrants.
 - (B) They accounted for a significant portion of the investment capital used by Chinese immigrants in New York in the early twentieth century.
 - (C) Third-generation members of an immigrant group who started businesses in the 1920's would have been unlikely to rely on them.

- (D) They were frequently joint endeavors by members of two or three different ethnic groups.
- (E) Recent immigrants still frequently turn to rotating credit associations instead of banks for investment capital.
- 4. The passage best supports which of the following statements?
 - (A) A minority entrepreneur who had no assistance from family members would not be able to start a business.
 - (B) Self-help networks have been effective in helping entrepreneurs primarily in the last 50 years.
 - (C) Minority groups have developed a range of alternatives to standard financing of business ventures.
 - (D) The financial institutions founded by various ethnic groups owe their success to their unique formal organization.
 - (E) Successful minority-owned businesses succeed primarily because of the personal strengths of their founders.
- 5. Which of the following best describes the organization of the second paragraph?
 - (A) An argument is delineated, followed by a counterargument.
 - (B) An assertion is made and several examples are provided to illustrate it.
 - (C) A situation is described and its historical background is then outlined.
 - (D) An example of a phenomenon is given and is then used as a basis for general conclusions.
 - (E) A group of parallel incidents is described and the distinctions among the incidents are then clarified.
- 6. According to the passage, once a minority-owned business is established, self-help networks contribute which of the following to that business?
 - (A) Information regarding possible expansion of the

- business into nearby communities
- Student Bounty Com (B) Encouragement of a business climate that is nearly free of direct competition
- (C) Opportunities for the business owner to reinvest profits in other minority-owned businesses
- (D) Contact with people who are likely to be customers of the new business
- (E) Contact with minority entrepreneurs who are members of other ethnic groups
- 7. It can be inferred from the passage that traditional analyses of minority business would be LEAST likely to do which of the following?
 - (A) Examine businesses primarily in their social contexts
 - (B) Focus on current, rather than historical, examples of business enterprises
 - (C) Stress common experiences of individual entrepreneurs in starting businesses
 - (D) Focus on the maintenance of businesses, rather than means of starting them
 - (E) Focus on the role of individual entrepreneurs in starting a business
- 8. Which of the following can be inferred from the passage about the Irish building and loan associations mentioned in the last paragraph?
 - (A) They were started by third-or fourth-generation immigrants.
 - (B) They originated as offshoots of church-related groups.
 - (C) They frequently helped Irish entrepreneurs to finance business not connected with construction.
 - (D) They contributed to the employment of many Irish construction workers.
 - (E) They provided assistance for construction businesses owned by members of other ethnic groups.

Species interdependence in nature confers many benefits on the species involved, but it can also become a point of weakness when one species involved in the relationship is affected by a catastrophe. Thus, flowering (5) plant species dependent on insect pollination, as opposed to self-pollination or wind pollination, could be endangered when the population of insect-pollinators is depleted by the use of pesticides.

In the forests of New Brunswick, for example,

(10) various pesticides have been sprayed in the past 25 years in efforts to control the spruce budworm, an economically significant pest. Scientists have now investigated the effects of the spraying of Matacil, one of the antibudworm agents that is least toxic to insect-pollinators.

- (15) They studied Matacil's effects on insect mortality in a wide variety of wild insect species and on plant fecundity, expressed as the percentage of the total flowers on an individual plant that actually developed fruit and bore seeds. They found that the most pronounced
- (20) mortality after the spraying of Matacil occurred among the smaller bees and one family of flies, insects that were all important pollinators of numerous species of plants growing beneath the tree canopy of forests. The fecundity of plants in one common indigenous species, the
- (25) red-osier dogwood, was significantly reduced in the sprayed areas as compared to that of plants in control plots where Matacil was not sprayed. This species is highly dependent on the insect-pollinators most vulnerable to Matacil. The creeping dogwood, a species similar
- (30) to the red-osier dogwood, but which is pollinated by large bees, such as bumblebees, showed no significant decline in fecundity. Since large bees are not affected by the spraying of Matacil. these results and weight to the argument that spraying where the pollinators are sensi(35) tive to the pesticide used decreases plant fecundity.

The question of whether the decrease in plant fecundity caused by the spraying of pesticides actually causes a decline in the overall population of flowering plant species still remains unanswered. Plant species dependent (40) solely on seeds for survival or dispersal are obviously

more vulnerable to any decrease in plant fecundity occurs, whatever its cause. If, on the other hand, vegetative growth and dispersal (by means of shoots or runners) are available as alternative reproductive strategies for a (45) species, then decreases in plant fecundity may be of little consequence. The fecundity effects described here are likely to have the most profound impact on plant species with all four of the following characteristics: a short life span, a narrow geographic range, an incapacity for vege-(50) tative propagation, and a dependence on a small number of insect-pollinator species. Perhaps we should give special attention to the conservation of such plant species since they lack key factors in their defenses against the environmental disruption caused by pesticide use.

- 1. Which of the following best summarizes the main point of the passage?
 - (A) Species interdependence is a point of weakness for some plants, but is generally beneficial to insects involved in pollination.
 - (B) Efforts to control the spruce budworm have had deleterious effects on the red-osier dogwood.
 - (C) The used of pesticides may be endangering certain plant species dependent on insects for pollination.
 - (D) The spraying of pesticides can reduce the fecundity of a plant species, but probably does not affect its overall population stability.
 - (E) Plant species lacking key factors in their defenses against human environmental disruption will probably become extinct.
- 2. According to the author, a flowering plant species whose fecundity has declined due to pesticide spraying may not experience an overall population decline if the plant species can do which of the following?
 - (A) Reproduce itself by means of shoots and runners.
 - (B) Survive to the end of the growing season.
 - (C) Survive in harsh climates.
 - (D) Respond to the fecundity decline by producing more flowers.

(E) Attract large insects as pollinators

- 3. The passage suggests that the lack of an observed decline in the fecundity of the creeping dogwood strengthens the researchers conclusions regarding pesticide use because the
- (A) creeping dogwood its a species that does not resemble other forest plants
- (B) creeping dogwood is a species pollinated by a broader range of insect species than are most dogwood species
- (C) creeping dogwood grows primarily in regions that were not sprayed with pesticide, and so served as a control for the experiment
- (D) creeping dogwood is similar to the red-osier dogwood, but its insect pollinators are known to be insensitive to the pesticide used in the study
- (E) geographical range of the creeping dogwood is similar to that of the red-osier dogwood, but the latter species relies less on seeds for reproduction
- 4. The passage suggests that which of the following is true of the forest regions in New Brunswick sprayed with most anti-budworm pesticides other than Matacil?
 - (A) The fecundity of some flowering plants in those regions may have decreased to an even greater degree than in the regions where Matacil is used.
 - (B) Insect mortality in those regions occurs mostly among the larger species of insects, such as bumblebees.
 - (C) The number of seeds produced by common plant species in those regions is probably comparable to the number produced where Matacil is sprayed.
 - (D) Many more plant species have become extinct in those regions than in the regions where Matacil is used.
 - (E) The spruce budworm is under better control in those regions than in the regions where Matacil is sprayed.
- 5. It can be inferred that which of the following is true of

plant fecundity as it is defined in the passage?

- Student Bounty.com (A) A plant's fecundity decreases as the percentage of unpollinated flowers on the plant increases
- (B) A plant's fecundity decreases as the number of flowers produced by the plant decreases.
- (C) A plant's fecundity increases as the number of flowers produced by the plant increases.
- (D) A plant's fecundity is usually low if the plant relies on a small number of insect species for pollination.
- (E) A plant's fecundity is high if the plant can reproduce quickly by means of vegetative growth as well as by the production of seeds.
- 6. It can be inferred from the passage that which of the following plant species would be LEAST likely to experience a decrease in fecundity as a result of the spraying of a pesticide not directly toxic to plants?
 - (A) A flowering tree pollinated by only a few insect species
 - (B) A kind of insect-pollinated vine producing few
 - (C) A wind-pollinated flowering tree that is short-lived
 - (D) A flowering shrub pollinated by a large number of insect species
 - (E) A type of wildflower typically pollinated by larger insects
- 7. Which of the following assumptions most probably underlies the author's tentative recommendation in lines 51-54?
 - (A) Human activities that result in environmental disruption should be abandoned.
 - (B) The use of pesticides is likely to continue into the future.
 - (C) It is economically beneficial to preserve endangered plant species.
 - (D) Preventing the endangerment of a species is less costly than trying to save an already endangered one.
 - (E) Conservation efforts aimed at preserving a few wellchosen species are more cost-effective than are

broader-based efforts to improve the environment.

Passage 21

Bernard Bailyn has recently reinterpreted the early history of the United States by applying new social research findings on the experiences of European migrants. In his reinterpretation, migration becomes the organizing principle for rewriting the history of preindustrial North America. His approach rests on four separate propositions.

The first of these asserts that residents of early modern England moved regularly about their coun
(10) tryside; migrating to the New World was simply a
"natural spillover." Although at first the colonies held little positive attraction for the English---they would rather have stayed home—by the eighteenth century people increasingly migrated to America because they
(15) regarded it as the land of opportunity. Secondly, Bailyn holds that, contrary to the notion that used to flourish in America history textbooks, there was never a typical New World community. For example, the economic and demographic character of early New England towns
(20) varied considerably.

Bailyn's third proposition suggests two general patterns prevailing among the many thousands of migrants: one group came as indentured servants, another came to acquire land. Surprisingly, Bailyn (25) suggests that those who recruited indentured servants were the driving forces of transatlantic migration. These colonial entrepreneurs helped determine the social character of people who came to preindustrial North America. At first, thousands of unskilled laborers were recruited; (30) by the 1730's, however, American employers demanded skilled artisans.

Finally, Bailyn argues that the colonies were a half-civilized hinterland of the European culture system. He is undoubtedly correct to insist that the colonies were (35) part of an Anglo-American empire. But to divide the empire into English core and colonial periphery, as Bailyn does, devalues the achievements of colonial

culture. It is true, as Bailyn claims, that high culture the colonies never matched that in England. But what (40) of seventeenth-century New England, where the settlers created effective laws, built a distinguished university, and published books? Bailyn might respond that New England was exceptional. However, the ideas and institutions developed by New England Puritans had power-(45) ful effects on North American culture.

Although Bailyn goes on to apply his approach to some thousands of indentured servants who migrated just prior to the revolution, he fails to link their experience with the political development of the United States.

(50) Evidence presented in his work suggests how we might make such a connection. These indentured servants were treated as slaves for the period during which they had sold their time to American employers. It is not surprising that as soon as they served their time they passed up

(55) good wages in the cities and headed west to ensure their personal independence by acquiring land. Thus, it is in the west that a peculiarly American political culture began, among colonists who were suspicious of authority and intensely antiaristocratic.

- 1. Which of the following statements about migrants to colonial North America is supported by information in the passage?
 - (A) A larger percentage of migrants to colonial North America came as indentured servants than as free agents interested in acquiring land.
 - (B) Migrants who came to the colonies as indentured servants were more successful at making a livelihood than were farmers and artisans.
 - (C) Migrants to colonial North America were more successful at acquiring their own land during the eighteenth century than during the seven-tenth century.
 - (D) By the 1730's, migrants already skilled in a trade were in more demand by American employers than were unskilled laborers.
 - (E) A significant percentage of migrants who came to

- the colonies to acquire land were forced to work as field hands for prosperous American farmers.
- 2. The author of the passage states that Bailyn failed to
 - (A) give sufficient emphasis to the cultural and political interdependence of the colonies and England
 - (B) describe carefully how migrants of different ethnic backgrounds preserved their culture in the united States
 - (C) take advantage of social research on the experiences of colonists who migrated to colonial North America specifically to acquire land
 - (D) relate the experience of the migrants to the political values that eventually shaped the character of the United States
 - (E) investigate the lives of Europeans before they came to colonial North America to determine more adequately their motivations for migrating
- 3. Which of the following best summarizes the author's evaluation of Bailyn's fourth proposition?
 - (A) It is totally implausible.
 - (B) It is partially correct.
 - (C) It is highly admirable.
 - (D) It is controversial though persuasive.
 - (E) It is intriguing though unsubstantiated.
- 4. According to the passage, Bailyn and the author agree on which of the following statements about the culture of colonial New England?
 - (A) High culture in New England never equaled the high culture of England.
 - (B) The cultural achievements of colonial New England have generally been unrecognized by historians.
 - (C) The colonists imitated the high culture of England, and did not develop a culture that was uniquely their own.
 - (D) The southern colonies were greatly influenced by the high culture of New England.
 - (E) New England communities were able to create laws

- and build a university, but unable to create anyth innovative in the arts.
- 5. According to the passage, which of the following is true of English migrants to the colonies during the eighteenth century?
 - (A) Most of them were farmers rather than trades people or artisans.
 - (B) Most of them came because they were unable to find work in England.
 - (C) They differed from other English people in that they were willing to travel.
 - (D) They expected that the colonies would offer them increased opportunity.
 - (E) They were generally not as educated as the people who remained in England.
- 6. The author of the passage is primarily concerned with
 - (A) comparing several current interpretations of early American history
 - (B) suggesting that new social research on migration should lead to revisions in current interpretations of early American history
 - (C) providing the theoretical framework that is used by most historians in understanding early American history
 - (D) refuting an argument about early American history that has been proposed by social historians
 - (E) discussing a reinterpretation of early American history that is based on new social research on migration
- 7. It can be inferred from the passage that American history textbooks used to assert that
 - (A) many migrants to colonial North America were not successful financially
 - (B) more migrants came to America out of religious or political conviction that came in the hope of acquiring land
 - (C) New England communities were much alike in terms of their economics and demographics

- (D) many migrants to colonial North America failed to maintain ties with their European relations
- (E) the level of literacy in New England communities was very high
- 8. The author of the passage would be most likely to agree with which of the following statements about Bailyn's work?
 - (A) Bailyn underestimates the effects of Puritan thought on North American culture
 - (B) Bailyn overemphasizes the economic dependence of the colonies on Great Britain.
 - (C) Bailyn's description of the colonies as part of an Anglo-American empire is misleading and incorrect.
 - (D) Bailyn failed to test his propositions on a specific group of migrants to colonial North America.
 - (E) Bailyn overemphasizes the experiences of migrants to the New England colonies, and neglects the southern and the western parts of the New World.

Many United States companies have, unfortunately, made the search for legal protection from import competition into a major line of work. Since 1980 the United States International Trade Commission (ITC)

- (5) has received about 280 complaints alleging damage from imports that benefit from subsidies by foreign governments. Another 340 charge that foreign companies "dumped" their products in the United States at "less than fair value." Even when no unfair practices
- (10) are alleged, the simple claim that an industry has been injured by imports is sufficient grounds to seek relief.

Contrary to the general impression, this quest for import relief has hurt more companies than it has helped. As corporations begin to function globally, they

(15) develop an intricate web of marketing, production, and research relationships, The complexity of these relationships makes it unlikely that a system of import relief laws will meet the strategic needs of all the units under the same parent company.

duties.

Student Bounty.com Internationalization increases the danger that foreign (20) companies will use import relief laws against the very companies the laws were designed to protect. Suppose a United States-owned company establishes an overseas plant to manufacture a product while its competitor (25) makes the same product in the United States. If the competitor can prove injury from the imports---and that the United States company received a subsidy from a foreign government to build its plant abroad—the United States company's products will be uncompeti-

30) tive in the United States, since they would be subject to

- Perhaps the most brazen case occurred when the ITC investigated allegations that Canadian companies were injuring the United States salt industry by dumping (35) rock salt, used to de-ice roads. The bizarre aspect of the complaint was that a foreign conglomerate with United States operations was crying for help against a United States company with foreign operations. The "United States" company claiming injury was a subsidiary of a (40) Dutch conglomerate, while the "Canadian" companies included a subsidiary of a Chicago firm that was the second-largest domestic producer of rock salt.
- 1. The passage is chiefly concerned with
 - (A) arguing against the increased internationalization of **United States corporations**
 - (B) warning that the application of laws affecting trade frequently has unintended consequences
 - (C) demonstrating that foreign-based firms receive more subsidies from their governments than United States firms receive from the United States government
 - (D) advocating the use of trade restrictions for "dumped" products but not for other imports
 - (E) recommending a uniform method for handling claims of unfair trade practices
- 2. It can be inferred from the passage that the minimal basis for a complaint to the International Trade Commission is which of the following?

- (A) A foreign competitor has received a subsidy from a foreign government.
- (B) A foreign competitor has substantially increased the 5. The passage suggests that which of the following is volume of products shipped to the United States.
- (C) A foreign competitor is selling products in the United States at less than fair market value.
- (D) The company requesting import relief has been injured by the sale of imports in the United States.
- (E) The company requesting import relief has been barred from exporting products to the country of its foreign competitor.
- 3. The last paragraph performs which of the following functions in the passage?
- (A) It summarizes the discussion thus far and suggests additional areas of research.
- presented earlier.
- (C) It discusses an exceptional case in which the results expected by the author of the passage were not
- (D) It introduces an additional area of concern not mentioned earlier.
- (E) It cites a specific case that illustrates a problem presented more generally in the previous paragraph.
- 4. The passage warns of which of the following dangers?
 - (A) Companies in the United States may receive no protection from imports unless they actively seek protection from import competition.
 - (B) Companies that seek legal protection from import competition may incur legal costs that far exceed any possible gain.
 - (C) Companies that are United States-owned but operate internationally may not be eligible for protection from import competition under the laws of the countries in which their plants operate.
 - (D) Companies that are not United States-owned may seek legal protection from import competition under United States import relief laws.

- Student Bounty.com (E) Companies in the United States that import raw materials may have to pay duties on those material
- most likely to be true of United States trade laws?
 - (A) They will eliminate the practice of "dumping" products in the United States.
 - (B) They will enable manufacturers in the United States to compete more profitably outside the United States.
 - (C) They will affect United States trade with Canada more negatively than trade with other nations.
 - (D) Those that help one unit within a parent company will not necessarily help other units in the company.
 - (E) Those that are applied to international companies will accomplish their intended result.
- (B) It presents a recommendation based on the evidence 6. It can be inferred from the passage that the author believes which of the following about the complaint mentioned in the last paragraph?
 - (A) The ITC acted unfairly toward the complainant in its investigation.
 - (B) The complaint violated the intent of import relief laws.
 - (C) The response of the ITC to the complaint provided suitable relief from unfair trade practices to the complainant.
 - (D) The ITC did not have access to appropriate information concerning the case.
 - (E) Each of the companies involved in the complaint acted in its own best interest.
 - 7. According to the passage, companies have the general impression that International Trade Commission import relief practices have
 - (A) caused unpredictable fluctuations in volumes of imports and exports
 - (B) achieved their desired effect only under unusual circumstances
 - (C) actually helped companies that have requested import relief

- (D) been opposed by the business community
- (E) had less impact on international companies than the business community expected
- 8. According to the passage, the International Trade Commission is involved in which of the following?
 - (A) Investigating allegations of unfair import competition
 - (B) Granting subsidies to companies in the United States that have been injured by import competition
 - (C) Recommending legislation to ensure fair
 - (D) Identifying international corporations that wish to build plants in the United States
 - (E) Assisting corporations in the United States that wish to compete globally

At the end of the nineteenth century, a rising interest in Native American customs and an increasing desire to understand Native American culture prompted ethnologists to begin recording the life stories of Native Amer-(5) ican. Ethnologists had a distinct reason for wanting to hear the stories: they were after linguistic or anthropological data that would supplement their own field observations, and they believed that the personal stories, even of a single individual, could increase their (10) understanding of the cultures that they had been observing from without. In addition many ethnologists at the turn of the century believed that Native American manners and customs were rapidly disappearing, and that it was important to preserve for posterity as (15) much information as could be adequately recorded before the cultures disappeared forever.

There were, however, arguments against this method as a way of acquiring accurate and complete information. Franz Boas, for example, described autobiogration phies as being "of limited value, and useful chiefly for the study of the perversion of truth by memory," while Paul Radin contended that investigators rarely spent

enough time with the tribes they were observing, an inevitably derived results too tinged by the investi(25) gator's own emotional tone to be reliable.

Even more importantly, as these life stories moved from the traditional oral mode to recorded written form, much was inevitably lost. Editors often decided what elements were significant to the field research on a 30) given tribe. Native Americans recognized that the essence of their lives could not be communicated in English and that events that they thought significant were often deemed unimportant by their interviewers. Indeed, the very act of telling their stories could force 35) Native American narrators to distort their cultures, as taboos had to be broken to speak the names of dead relatives crucial to their family stories.

Despite all of this, autobiography remains a useful tool for ethnological research: such personal reminis40) cences and impressions, incomplete as they may be, are likely to throw more light on the working of the mind and emotions than any amount of speculation from an ethnologist or ethnological theorist from another culture.

- 1. Which of the following best describes the organization of the passage?
 - (A) The historical backgrounds of two currently used research methods are chronicled.
 - (B) The validity of the data collected by using two different research methods is compared.
 - (C) The usefulness of a research method is questioned and then a new method is proposed.
 - (D) The use of a research method is described and the limitations of the results obtained are discussed.
 - (E) A research method is evaluated and the changes necessary for its adaptation to other subject areas are discussed.
- 2. Which of the following is most similar to the actions of nineteenth-century ethnologists in their editing of the life stories of Native Americans?

- (A) A witness in a jury trial invokes the Fifth Amendment in order to avoid relating personally incriminating evidence.
- (B) A stockbroker refuses to divulge the source of her information on the possible future increase in a stock's value.
- (C) A sports announcer describes the action in a team sport with which he is unfamiliar.
- (D) A chef purposely excludes the special ingredient from the recipe of his prizewinning dessert.
- (E) A politician fails to mention in a campaign speech for political office and by herself.
- 3. According to the passage, collecting life stories can be a useful methodology because
 - (A) life stories provide deeper insights into a culture than the hypothesizing of academics who are not members of that culture
 - (B) life stories can be collected easily and they are not subject to invalid interpretations
 - (C) ethnologists have a limited number of research methods from which to choose
 - (D) life stories make it easy to distinguish between the important and unimportant features of a culture
 - (E) the collection of life stories does not require a culturally knowledgeable investigator
- 4. Information in the passage suggests that which of the following may be a possible way to eliminate bias in the editing of life stories?
 - (A) Basing all inferences made about the culture on an ethnological theory
 - (B) Eliminating all of the emotion-laden information reported by the informant
 - (C) Translating the informant's words into the researcher's language
 - (D) Reducing the number of questions and carefully specifying the content of the questions that the investigator can ask the informant

- Student Bounty.com (E) Reporting all of the information that the inform provides regardless of the investigator's personal opinion about its intrinsic value
- 5. The primary purpose of the passage as a whole is to
 - (A) question an explanation
 - (B) correct a misconception
 - (C) critique a methodology
 - (D) discredit an idea
 - (E) clarify an ambiguity
- the similarities in the positions held by her opponent 6. It can be inferred from the passage that a characteristic of the ethnological research on Native Americans conducted during the nineteenth century was the use of which of the following?
 - (A) Investigators familiar with the culture under study
 - (B) A language other than the informant's for recording life stories
 - (C) Life stories as the ethnologist's primary source of information
 - (D) Complete transcriptions of informants' descriptions of tribal beliefs
 - (E) Stringent guidelines for the preservation of cultural data
 - 7. The passage mentions which of the following as a factor that can affect the accuracy of ethnologists' transcriptions of life stories?
 - (A) The informants' social standing within the culture
 - (B) The inclusiveness of the theory that provided the basis for the research
 - (C) The length of time the researchers spent in the culture under study
 - (D) The number of life stories collected by the researchers
 - (E) The verifiability of the information provided by the research informants
 - 8. It can be inferred from the passage that the author would be most likely to agree with which of the following

statements about the usefulness of life stories as a source of ethnographic information?

- (A) They can be a source of information about how people in a culture view the world.
- (B) They are most useful as a source of linguistic information.
- (C) They require editing and interpretation before they can be useful.
- (D) They are most useful as a source of information about ancestry.
- (E) They provide incidental information rather than significant insights into a way of life.

Passage 24

All of the cells in a particular plant start out with the

same complement of genes. How then can these cells differentiate and form structures as different as roots, stems, leaves, and fruits? The answer is that only a (5) small subset of the genes in a particular kind of cell are expressed, or turned on, at a given time. This is accomplished by a complex system of chemical messengers

molecules. Five major hormones have been identified: (10) auxin, abscisic acid, cytokinin, ethylene, and gibberellin. Studies of plants have now identified a new class of

that in plants include hormones and other regulatory

regulatory molecules called oligosaccharins.

Unlike the oligosaccharins, the five well-known plant hormones are pleiotropic rather than specific, that is,

- opment of plants. The five has so many simultaneous effects that they are not very useful in artificially controlling the growth of crops. Auxin, for instance, stimulates the rate of cell elongation, causes shoots to
- (20) grow up and roots to grow down, and inhibits the growth of lateral shoots. Auxin also causes the plant to develop a vascular system, to form lateral roots, and to produce ethylene.

The pleiotropy of the five well-studied plant (25) hormones is somewhat analogous to that of certain

hormones in animal. For example, hormones from hypothalamus in the brain stimulate the anterior lobe of the pituitary gland to synthesize and release many different hormones, one of which stimulates the release (30) of hormones from the adrenal cortex. These hormones have specific effects on target organs all over the body. One hormone stimulates the thyroid gland, for

example, another the ovarian follicle cells, and so forth.

In other words, there is a hierarchy of hormones.

charins are fragments of the cell wall released by enzymes: different enzymes release different oligosaccharins. There are indications that pleiotropic plant hormones may actually function by activating the (40) enzymes that release these other, more specific chemical

 According to the passage, the five well-known plant hormones are not useful in controlling the growth of crops because

messengers from the cell wall.

- (A) it is not known exactly what functions the hormones perform
- (B) each hormone has various effects on plants
- (C) none of the hormones can function without the others
- (D) each hormone has different effects on different kinds of plants
- (E) each hormone works on only a small subset of a cell's genes at any particular time
- 2. The passage suggests that the place of hypothalamic hormones in the hormonal hierarchies of animals is similar to the place of which of the following in plants?
 - (A) Plant cell walls
 - (B) The complement of genes in each plant cell
 - (C) A subset of a plant cell's gene complement
 - (D) The five major hormones
 - (E) The oligosaccharins
- β. The passage suggests that which of the following is a

function likely to be performed by an oligosaccharin?

- (A) To stimulate a particular plant cell to become part of a plant's root system
- (B) To stimulate the walls of a particular cell to produce other oligosaccharins
- (C) To activate enzymes that release specific chemical messengers from plant cell walls
- (D) To duplicate the gene complement in a particular plant cell
- (E) To produce multiple effects on a particular subsystem of plant cells
- 4. The author mentions specific effects that auxin has on plant development in order to illustrate the
 - (A) point that some of the effects of plant hormones can be harmful
 - (B) way in which hormones are produced by plants
 - (C) hierarchical nature of the functioning of plant hormones
 - (D) differences among the best-known plant hormones
 - (E) concept of pleiotropy as it is exhibited by plant hormones
- 5. According to the passage, which of the following best describes a function performed by oligosaccharins?
 - (A) Regulating the daily functioning of a plant's cells
 - (B) Interacting with one another to produce different chemicals
 - (C) Releasing specific chemical messengers from a plant's cell walls
 - (D) Producing the hormones that cause plant cells to differentiate to perform different functions
 - (E) Influencing the development of a plant's cells by controlling the expression of the cells' genes
- 6. The passage suggests that, unlike the pleiotropic hormones, oligosaccharins could be used effectively
 - (A) trace the passage of chemicals through the walls of cells

- (B) pinpoint functions of other plant hormones
- Student Bounty.com (C) artificially control specific aspects of the development of crops
- (D) alter the complement of genes in the cells of plants
- (E) alter the effects of the five major hormones on plant development
- 7. The author discusses animal hormones primarily in order to
 - (A) introduce the idea of a hierarchy of hormones
 - (B) explain the effects that auxin has on plant cells
 - (C) contrast the functioning of plant hormones and animals hormones
 - (D) illustrate the way in which particular hormones affect animals
 - (E) explain the distinction between hormones and regulatory molecules

Passage 25

In 1977 the prestigious Ewha Women's University in Seoul, Korea, announced the opening of the first women's studies program in Asia. Few academic programs have ever received such public attention. In

- (5) broadcast debates, critics dismissed the program as a betrayal of national identity, an imitation of Western ideas, and a distraction from the real task of national unification and economic development. Even supporters underestimated the program; they thought it would be
- (10) merely another of the many Western ideas that had already proved useful in Asian culture, akin to airlines, electricity, and the assembly line. The founders of the program, however, realized that neither view was correct. They had some reservations about the appli-
- (15) cability of Western feminist theories to the role of women in Asia and felt that such theories should be closely examined. Their approach has thus far yielded important critiques of Western theory, informed by the special experience of Asian women.
- For instance, like the Western feminist critique of the (20)

- Freudian model of the human psyche, the Korean critique finds Freudian theory culture-bound, but in ways different from those cited by Western theorists.

 The Korean theorists claim that Freudian theory
- (25) assumes the universality of the Western nuclear, maleheaded family and focuses on the personality formation of the individual, independent of society, An analysis based on such assumptions could be valid for a highly competitive, individualistic society. In the Freudian
- (30) family drama, family members are assumed to be engaged in a Darwinian struggle against each other—father against son and sibling against sibling. Such a concept of projects the competitive model of Western society onto human personalities. But in the Asian
- (35) concept of personality there is no ideal attached to individualism or to the independent self. The Western model of personality development does not explain major characteristics of the Korean personality, which is social and group-centered. The "self" is a social being defined by
- (40) and acting in a group, and the well-being of both men and women is determined by the equilibrium of the group, not by individual self-assertion. The ideal is one of interdependency.
- In such a context, what is recognized as "depen(45) dency" in Western psychiatric terms is not, in Korean
 terms, an admission of weakness or failure. All this bears
 directly on the Asian perception of men's and women's
 psychology because men are also "dependent", In
 Korean culture, men cry and otherwise easily show their
- of masculinity in Western culture. In the kinship-based society of Korea, four generations may live in the same house, which means that people can be sons and daughters all their lives, whereas in Western culture, the roles of husband and son, wife and daughter, are often incompatible.
- 1. Which of the following best summarizes the content of the passage?
 - (A) A critique of a particular women's studies program

- (B) A report of work in social theory done by a particular women's studies program
- (C) An assessment of the strengths and weaknesses of a particular women's studies program
- (D) An analysis of the philosophy underlying women's studies programs
- (E) An abbreviated history of Korean women's studies programs
- 2. It can be inferred from the passage that Korean scholars in the field of women's studies undertook an analysis of Freudian theory as a response to which of the following?
 - (A) Attacks by critics of the Ewha women's studies program
 - (B) The superficiality of earlier critiques of Freudian theory
 - (C) The popularity of Freud in Korean psychiatric circles
 - (D) Their desire to encourage Korean scholars to adopt the Freudian model
 - (E) Their assessment of the relevance and limitations of Western feminist theory with respect to Korean culture
- 3. Which of the following conclusions about the introduction of Western ideas to Korean society can be supported by information contained in the passage?
 - (A) Except for technological innovations, few Western ideas have been successfully transplanted into Korean society.
 - (B) The introduction of Western ideas to Korean society is viewed by some Koreans as a challenge to Korean identity.
 - (C) The development of the Korean economy depends heavily on the development of new academic programs modeled after Western programs.
 - (D) The extent to which Western ideas must be adapted for acceptance by Korean society is minimal.
 - (E) The introduction of Western ideas to Korean society

accelerated after 1977.

- 4. It can be inferred from the passage that the broadcast media in Korea considered the establishment of the Ewha women's studies program
 - (A) praiseworthy
 - (B) insignificant
 - (C) newsworthy
 - (D) imitative
 - (E) incomprehensible
- 5. It can be inferred from the passage that the position taken by some of the supporters of the Ewha women's studies program was problematic to the founders of the program because those supporters
 - (A) assumed that the program would be based on the uncritical adoption of Western theory
 - (B) failed to show concern for the issues of national unification and economic development
 - (C) were unfamiliar with Western feminist theory
 - (D) were not themselves scholars in the field of women's studies
 - (E) accepted the universality of Freudian theory
- 6. Which of the following statements is most consistent with the view of personality development held by the Ewha women's studies group?
 - (A) Personality development occurs in identifiable stages, beginning with dependency in childhood and ending with independence in adulthood.
 - (B) Any theory of personality development, in order to be valid, must be universal.
 - (C) Personality development is influenced by the characteristics of the society in which a person lives.
 - (D) Personality development is hindered if a person is not permitted to be independent.
 - (E) No theory of personality development can account for the differences between Korean and Western culture.

- 7. Which of the following statements about the Western feminist critique of Freudian theory can be supported by information contained in the passage?
 - (A) It recognizes the influence of Western culture on Freudian theory.
 - (B) It was written after 1977.
 - (C) It acknowledges the universality of the nuclear, male-headed family.
 - (D) It challenges Freud's analysis of the role of daughters in Western society.
 - (E) It fails to address the issue of competitiveness in Western society.
- 8. According to the passage, critics of the Ewha women's studies program cited the program as a threat to which of the following?
 - I. National identity
 - II. National unification
 - III. Economic development
 - IV. Family integrity
 - (A) I only
 - (B) I and II only
 - (C) I, II, and III only
 - (D) II, III, and IV only
 - (E) I, II, III, and IV

Passage 26

In choosing a method for determining climatic conditions that existed in the past, paleoclimatologists invoke four principal criteria. First, the material---rocks, lakes, vegetation, etc—on which the method relies must be

- (5) widespread enough to provide plenty of information, since analysis of material that is rarely encountered will not permit correlation with other regions or with other periods of geological history. Second, in the process of formation, the material must have received an environ-
- (10) mental signal that reflects a change in climate and that can be deciphered by modern physical or chemical

means. Third, at least some of the material must have retained the signal unaffected by subsequent changes in the environment. Fourth, it must be possible to deter-

- (15) mine the time at which the inferred climatic conditions 1. Which of the following statements about the held. This last criterion is more easily met in dating marine sediments, because dating of only a small number of layers in a marine sequence allows the age of other layers to be estimated fairly reliably by extrapola-
- (20) tion and interpolation. By contrast, because sedimentation is much less continuous in continental regions, estimating the age of a continental bed from the known ages of beds above and below is more risky.

One very old method used in the investigation of past (25) climatic conditions involves the measurement of water levels in ancient lakes. In temperate regions, there are enough lakes for correlations between them to give us a reliable picture. In arid and semiarid regions, on the other hand, the small number of lakes and the great

- (30) distances between them reduce the possibilities for correlation. Moreover, since lake levels are controlled by rates of evaporation as well as by precipitation, the interpretation of such levels is ambiguous. For instance, the fact that lake levels in the semiarid southwestern United
- (35) States appear to have been higher during the last ice age than they are now was at one time attributed to increased precipitation. On the basis of snow-line elevations, however, it has been concluded that the climate then was not necessarily wetter than it is now, but rather
- (40) that both summers and winters were cooler, resulting in reduced evaporation.

Another problematic method is to reconstruct former climates on the basis of pollen profiles. The type of vegetation in a specific region is determined by identifying

- (45) and counting the various pollen grains found there. Although the relationship between vegetation and climate is not as direct as the relationship between climate and lake levels, the method often works well in the temperate zones. In arid and semiarid regions in
- (50) which there is not much vegetation, however, small changes in one or a few plant types can change the

Student Bounty.com picture dramatically, making accurate correlations between neighboring areas difficult to obtain.

- difference between marine and continental sedimentation is supported by information in the passage?
 - (A) Data provided by dating marine sedimentation is more consistent with researchers' findings in other disciplines than is data provided by dating continental sedimentation.
 - (B) It is easier to estimate the age of a layer in a sequence of continental sedimentation than it is to estimate the age of a layer in a sequence of marine sedimentation.
 - (C) Marine sedimentation is much less widespread than continental sedimentation.
 - (D) Researchers are more often forced to rely on extrapolation when dating a layer of marine sedimentation than when dating a layer of continental sedimentation.
 - (E) Marine sedimentation is much more continuous than is continental sedimentation.
- 2. Which of the following statements best describes the organization of the passage as a whole?
 - (A) The author describes a method for determining past climatic conditions and then offers specific examples of situations in which it has been used.
 - (B) The author discusses the method of dating marine and continental sequences and then explains how dating is more difficult with lake levels than with pollen profiles.
 - (C) The author describes the common requirements of methods for determining past climatic conditions and then discusses examples of such methods.
 - (D) The author describes various ways of choosing a material for determining past climatic conditions and then discusses how two such methods have yielded contradictory data.

- (E) The author describes how methods for determining past climatic conditions were first developed and then describes two of the earliest known methods.
- 3. It can be inferred from the passage that paleoclimatologists have concluded which of the following on the basis of their study of snow-line elevations in the southwestern United States?
 - (A) There is usually more precipitation during an ice age because of increased amounts of evaporation.
 - (B) There was less precipitation during the last ice age than there is today.
 - (C) Lake levels in the semiarid southwestern United States were lower during the last ice age than they are today.
 - (D) During the last ice age, cooler weather led to lower lake levels than paleoclimatologists had previously
 - (E) The high lake levels during the last ice age may have been a result of less evaporation rather than more precipitation.
- 4. Which of the following would be the most likely topic for a paragraph that logically continues the passage?
 - (A) The kinds of plants normally found in arid regions
 - (B) The effect of variation in lake levels on pollen distribution
 - (C) The material best suited to preserving signals of climatic changes
 - (D) Other criteria invoked by paleoclimatologists when choosing a method to determine past climatic conditions
 - (E) A third method for investigating past climatic conditions
- 5. The author discusses lake levels in the southwestern United States in order to
 - (A) illustrate the mechanics of the relationship between lake level, evaporation, and precipitation
 - (B) provide an example of the uncertainty involved in

- interpreting lake levels
- Student Bounty.com (C) prove that there are not enough ancient lakes with which to make accurate correlations
- (D) explain the effects of increased rates of evaporation on levels of precipitation
- (E) suggest that snow-line elevations are invariably more accurate than lake levels in determining rates of precipitation at various points in the past
- 6. It can be inferred from the passage that an environmental signal found in geological material would not be useful to paleoclimatologists if it
 - (A) had to be interpreted by modern chemical means
 - (B) reflected a change in climate rather than a longterm climatic condition
 - (C) was incorporated into a material as the material was forming
 - (D) also reflected subsequent environmental changes
 - (E) was contained in a continental rather than a marine sequence
- 7. According to the passage, the material used to determine past climatic conditions must be widespread for which of the following reasons?
 - I . Paleoclimatologists need to make comparisons between periods of geological history.
 - II . Paleoclimatologists need to compare materials that have supported a wide variety of vegetation.
 - III. Paleoclimatologists need to make comparisons with data collected in other regions.
 - (A) I only
 - (B) II only
 - (C) I and II only
 - (D) I and III only
 - (E) II and III only
- 8. Which of the following can be inferred from the passage about the study of past climates in arid and semiarid regions?
 - (A) It is sometimes more difficult to determine past

- climatic conditions in arid and semiarid regions than in temperate regions.
- (B) Although in the past more research has been done on temperate regions, paleoclimatologists have recently turned their attention to arid and semiarid regions.
- (C) Although more information about past climates can be gathered in arid and semiarid than in temperate regions, dating this information is more difficult.
- (D) It is difficult to study the climatic history of arid and semiarid regions because their climates have tended to vary more than those of temperate regions.
- (E) The study of past climates in arid and semiarid regions has been neglected because temperate regions support a greater variety of plant and animal life.

Since the late 1970's, in the face of a severe loss of market share in dozens of industries, manufacturers in the United States have been trying to improve productivity—and therefore enhance their international

(5) competitiveness—through cost—cutting programs. (Cost-cutting here is defined as raising labor output while holding the amount of labor constant.) However, from 1978 through 1982, productivity—the value of goods manufactured divided by the amount of labor input—

(10) did not improve; and while the results were better in the business upturn of the three years following, they ran 25 percent lower than productivity improvements during earlier, post-1945 upturns. At the same time, it became clear that the harder manufactures worked to imple
(15) ment cost-cutting, the more they lost their competitive

With this paradox in mind, I recently visited 25 companies; it became clear to me that the cost-cutting approach to increasing productivity is fundamentally (20) flawed. Manufacturing regularly observes a "40, 40, 20" rule. Roughly 40 percent of any manufacturing-based

edge.

competitive advantage derives from long-term channin manufacturing structure (decisions about the number, size, location, and capacity of facilities) and in approaches to materials. Another 40 percent comes from major changes in equipment and process technology. The final 20 percent rests on implementing conventional cost-cutting. This rule does not imply that cost-cutting should not be tried. The well-known tools of this approach—30) including simplifying jobs and retraining employees to work smarter, not harder—do produce results. But the tools quickly reach the limits of what they can contribute.

Another problem is that the cost-cutting approach (35) hinders innovation and discourages creative people. As Abernathy's study of automobile manufacturers has shown, an industry can easily become prisoner of its own investments in cost-cutting techniques, reducing its ability to develop new products. And managers under (40) pressure to maximize cost-cutting will resist innovation because they know that more fundamental changes in processes or systems will wreak havoc with the results on which they are measured. Production managers have always seen their job as one of minimizing costs and (45) maximizing output. This dimension of performance has until recently sufficed as a basis of evaluation, but it has created a penny-pinching, mechanistic culture in most factories that has kept away creative managers.

Every company I know that has freed itself from the (50) paradox has done so, in part, by developing and implementing a manufacturing strategy. Such a strategy focuses on the manufacturing structure and on equipment and process technology. In one company a manufacturing strategy that allowed different areas of the (55) factory to specialize in different markets replaced the conventional cost-cutting approach; within three years the company regained its competitive advantage.

Together with such strategies, successful companies are also encouraging managers to focus on a wider set of objectives besides cutting costs. There is hope for manufacturing, but it clearly rests on a different way of

managing.

- 1. The author of the passage is primarily concerned with
 - (A) summarizing a thesis
 - (B) recommending a different approach
 - (C) comparing points of view
 - (D) making a series of predictions
 - (E) describing a number of paradoxes
- 2. It can be inferred from the passage that the manufacturrs mentioned in line 2 expected that the measures they implemented would
 - (A) encourage innovation
 - (B) keep labor output constant
 - (C) increase their competitive advantage
 - (D) permit business upturns to be more easily predicted
 - (E) cause managers to focus on a wider set of objectives 7. The author suggests that implementing conventional
- 3. The primary function of the first paragraph of the passage is to
 - (A) outline in brief the author's argument
 - (B) anticipate challenges to the prescriptions that follow
 - (C) clarify some disputed definitions of economic terms
 - (D) summarize a number of long-accepted explanations
 - (E) present a historical context for the author's observations
- 4. The author refers to Abernathy's study (line 36) most probably in order to
 - (A) qualify an observation about one rule governing manufacturing
 - (B) address possible objections to a recommendation about improving manufacturing competitiveness
 - (C) support an earlier assertion about one method of increasing productivity
 - (D) suggest the centrality in the United States economy of a particular manufacturing industry
 - (E) given an example of research that has questioned the wisdom of revising a manufacturing strategy

- Student Bounty.com 5. The author's attitude toward the culture in most fac is best described as
 - (A) cautious
 - (B) critical
 - (C) disinterested
 - (D) respectful
 - (E) adulatory
- 6. In the passage, the author includes all of the following **EXCEPT**
 - (A) personal observation
 - (B) a business principle
 - (C) a definition of productivity
 - (D) an example of a successful company
 - (E) an illustration of a process technology
- cost-cutting as a way of increasing manufacturing competitiveness is a strategy that is
 - (A) flawed and ruinous
 - (B) shortsighted and difficult to sustain
 - (C) popular and easily accomplished
 - (D) useful but inadequate
 - (E) misunderstood but promising

The settlement of the United States has occupied traditional historians since 1893 when Frederick Jackson Turner developed his Frontier Thesis, a thesis that explained American development in terms of westward (5) expansion. From the perspective of women's history, Turner's exclusively masculine assumptions constitute a major drawback: his defenders and critics alike have reconstructed men's, not women's, lives on the frontier. However, precisely because of this masculine orientation, (10) revising the Frontier Thesis by focusing on women's experience introduces new themes into women's history—woman as lawmaker and entrepreneur—and, consequently, new interpretations of women's relation-

ship to capital, labor, and statute. (15) Turner claimed that the frontier produced the individualism that is the hallmark of American culture, and that this individualism in turn promoted democratic institutions and economic equality. He argued for the frontier as an agent of social change. Most novelists and (20) historians writing in the early to midtwentieth century who considered women in the West, when they considered women at all, fell under Turner's spell. In their works these authors tended to glorify women's contributions to frontier life. Western women, in Turnerian tradi-(25) tion, were a fiercely independent, capable, and durable lot, free from the constraints binding their eastern sisters. This interpretation implied that the West provided a congenial environment where women could aspire to their own goals, free from constrictive stereotypes and (30) sexist attitudes. In Turnerian terminology, the frontier had furnished "a gate of escape from the bondage of the

By the middle of the twentieth century, the Frontier Thesis fell into disfavor among historians. Later, Reac- \(\beta \). Which of the following, if true, would provide (35) tionist writers took the view that frontier women were lonely, displaced persons in a hostile milieu that intensified the worst aspects of gender relations. The renais-

past."

Student Bounty Com sance of the feminist movement during the 1970 the Stasist school, which sidestepped the good bad (40) dichotomy and argued that frontier women lived lives similar to the live of women in the East. In one nowstandard text, Faragher demonstrated the persistence of the "cult of true womanhood" and the illusionary quality of change on the westward journey. Recently the 45) Stasist position has been revised but not entirely discounted by new research.

- 1. The primary purpose of the passage is to
 - (A) provide a framework within which the history of women in nineteenth-century America can be organized.
 - (B) discuss divergent interpretations of women's experience on the western frontier
 - (C) introduce a new hypothesis about women's experience in nineteenth-century America
 - (D) advocate an empirical approach to women's experience on the western frontier
 - (E) resolve ambiguities in several theories about women's experience on the western frontier
- 2. Which of the following can be inferred about the novelists and historians mentioned in lines 19-20?
 - (A) They misunderstood the powerful influence of constrictive stereotypes on women in the East.
 - (B) They assumed that the frontier had offered more opportunities to women than had the East.
 - (C) They included accurate information about women's experiences on the frontier.
 - (D) They underestimated the endurance and fortitude of frontier women.
 - (E) They agreed with some of Turner's assumptions about frontier women, but disagreed with other assumptions that he made.
- additional evidence for the Stasists' argument as it is described in the passage?
 - (A) Frontier women relied on smaller support groups of

- relatives and friends in the West than they had in the East.
- (B) The urban frontier in the West offered more occupational opportunity than the agricultural frontier offered.
- (C) Women participated more fully in the economic decisions of the family group in the West than they had in the East.
- (D) Western women received financial compensation for labor that was comparable to what women received in the East.
- (E) Western women did not have an effect on divorce laws, but lawmakers in the West were more responsive to women's concerns than lawmakers in the East were.
- 4. According to the passage, Turner makes which of the following connections in his Frontier Thesis?
 - I . A connection between American individualism and economic equality
 - II. A connection between geographical expansion and social change
- III. A connection between social change and financial prosperity
- (A) I only
- (B) II only
- (C) III only
- (D) I and II only
- (E) I, II and III
- 5. It can be inferred that which of the following statements is consistent with the Reactionist position as it is described in the passage?
 - (A) Continuity, not change, marked women's lives as they moved from East to West.
 - (B) Women's experience on the North American frontier has not received enough attention from modern historians.
 - (C) Despite its rigors, the frontier offered women opportunities that had not been available in the East.
 - (D) Gender relations were more difficult for women in

- the West than they were in the East.
- Student Bounty Com (E) Women on the North American frontier adopted no roles while at the same time reaffirming traditional roles.
- 6. Which of the following best describes the organization of the passage?
 - (A) A current interpretation of a phenomenon is described and then ways in which it was developed are discussed.
 - (B) Three theories are presented and then a new hypothesis that discounts those theories is described.
 - (C) An important theory and its effects are discussed and then ways in which it has been revised are described.
 - (D) A controversial theory is discussed and then viewpoints both for and against it are described.
 - (E) A phenomenon is described and then theories concerning its correctness are discussed.
- 7. Which of the following is true of the Stasist school as it is described in the passage?
 - (A) It provides new interpretations of women's relationship to work and the law.
 - (B) It resolves some of the ambiguities inherent in Turnerian and Reactionist thought.
 - (C) It has recently been discounted by new research gathered on women's experience.
 - (D) It avoids extreme positions taken by other writers on women's history.
 - (E) It was the first school of thought to suggest substantial revisions to the Frontier Thesis.

Studies of the Weddell seal in the laboratory have described the physiological mechanisms that allow the seal to cope with the extreme oxygen deprivation that occurs during its longest dives, which can extend 500 (5) meters below the ocean's surface and last for over 70 minutes. Recent field studies, however, suggest that during more typical dives in the wild, this seal's physiological behavior is different.

In the laboratory, when the seal dives below the (10) surface of the water and stops breathing, its heart beats more slowly, requiring less oxygen, and its arteries become constricted, ensuring that the seal's blood remains concentrated near those organs most crucial to its ability to navigate underwater. The seal essentially

- (15) shuts off the flow of blood to other organs, which either stop functioning until the seal surfaces or switch to an anaerobic (oxygen-independent) metabolism. The latter results in the production of large amounts of lactic acid which can adversely affect the pH of the seal's blood
- (20) but since the anaerobic metabolism occurs only in those 2. It can be inferred from the passage that by describing the tissues which have been isolated from the seal's blood supply, the lactic acid is released into the seal's blood only after the seal surfaces, when the lungs, liver, and other organs quickly clear the acid from the seal's blood-(25) stream.

Recent field studies, however, reveal that on dives in the wild, the seal usually heads directly for its prey and returns to the surface in less than twenty minutes. The absence of high levels of lactic acid in the seal's blood

- (30) after such dives suggests that during them, the seal's organs do not resort to the anaerobic metabolism observed in the laboratory, but are supplied with oxygen from the blood. The seal's longer excursions underwater, during which it appears to be either exploring distant
- (35) routes or evading a predator, do evoke the diving response seen in the laboratory. But why do the seal's laboratory dives always evoke this response, regardless of their length or depth? Some biologists speculate that because in laboratory dives the seal is forcibly
- (40) submerged, it does not know how long it will remain underwater and so prepares for the worst.
- 1. The passage provides information to support which of the following generalizations?
 - (A) Observations of animals' physiological behavior in the wild are not reliable unless verified by laboratory studies.
 - (B) It is generally less difficult to observe the

- Student Bounty.com physiological behavior of an animal in the wild in the laboratory.
- (C) The level of lactic acid in an animal's blood is likely to be higher when it is searching for prey than when it s evading predators.
- (D) The level of lactic acid in an animal's blood is likely to be lowest during those periods in which it experiences oxygen deprivation.
- (E) The physiological behavior of animals in a laboratory setting is not always consistent with their physiological behavior in the wild.
- Weddell seal as preparing "for the worst" (line 41), biologists mean that it
- (A) prepares to remain underwater for no longer than twenty minutes
- (B) exhibits physiological behavior similar to that which characterizes dives in which it heads directly for its
- (C) exhibits physiological behavior similar to that which characterizes its longest dives in the wild.
- (D) begins to exhibit predatory behavior
- (E) clears the lactic acid from its blood before attempting to dive
- β. The passage suggests that during laboratory dives, the pH of the Weddell seal's blood is not adversely affected by the

production of lactic acid because

- (A) only those organs that are essential to the seal's ability to navigate underwater revert to an anaerobic mechanism.
- (B) the seal typically reverts to an anaerobic metabolism only at the very end of the dive
- (C) organs that revert to an anaerobic metabolism are temporarily isolated from the seal's bloodstream
- (D) oxygen continues to be supplied to organs that clear lactic acid from the seal's bloodstream
- (E) the seal remains submerged for only short periods of time

- 4. Which of the following best summarizes the main point
 - (A) Recent field studies have indicated that descriptions of the physiological behavior of the Weddell seal during laboratory dives are not applicable to its most typical dives in the wild.

of the passage?

- (B) The Weddell seal has developed a number of unique mechanisms that enable it to remain submerged at depths of up to 500 meters for up to 70 minutes.
- (C) The results of recent field studies have made it necessary for biologists to revise previous perceptions of how the Weddell seal behaves physiologically during its longest dives in the wild.
- (D) Biologists speculate that laboratory studies of the physiological behavior of seals during dives lasting the seals were not forcibly submerged.
- (E) How the Weddell seal responds to oxygen deprivation during its longest dives appears to depend on whether the seal is searching for prey or avoiding predators during such dives.
- 5. According to the author, which of the following is true of the laboratory studies mentioned in line 1?
 - (A) They fail to explain how the seal is able to tolerate the increased production of lactic acid by organs that revert to an anaerobic metabolism during its longest dives in the wild.
 - (B) They present an oversimplified account of mechanisms that the Weddell seal relies on during its longest dives in the wild.
 - (C) They provide evidence that undermines the view that the Weddell seal relies on an anaerobic metabolism during its most typical dives in the wild.
 - (D) They are based on the assumption that Weddell seals rarely spend more than twenty minutes underwater on a typical dive in the wild.
 - (E) They provide an accurate account of the physiological behavior of Weddell seals during those dives in the wild in which they are either

evading predators or exploring distant routes.

- Student Bounty.com 6. The author cites which of the following as characteristic of the Weddell seal's physiological behavior during dives observed in the laboratory?
 - I. A decrease in the rate at which the seal's heart beats
 - II. A constriction of the seal's arteries
 - III. A decrease in the levels of lactic acid in the seal's blood
 - IV. A temporary halt in the functioning of certain organs
 - (A) I and III only
 - (B) II and IV only
 - (C) II and III only
 - (D) I, II, and IV only
 - (E) I,III, and IV only
- more than twenty minutes would be more accurate if 7. The passage suggests that because Weddell seals are forcibly submerged during laboratory dives, they do which of the following?
 - (A) Exhibit the physiological responses that are characteristic of dives in the wild that last less than twenty minutes.
 - (B) Exhibit the physiological responses that are characteristic of the longer dives they undertake in the wild.
 - (C) Cope with oxygen deprivation less effectively than they do on typical dives in the wild.
 - (D) Produce smaller amounts of lactic acid than they do on typical dives in the wild.
 - (E) Navigate less effectively than they do on typical dives in the wild

Passage 30

Since the early 1970's, historians have begun to devote serious attention to the working class in the United States. Yet while we now have studies of working-class communities and culture, we know

(5) remarkably little of worklessness. When historians have paid any attention at all to unemployment, they have focused on the Great Depression of the 1930's. The

- narrowness of this perspective ignores the pervasive recessions and joblessness of the previous decades, as
- (10) Alexander Keyssar shows in his recent book. Examining the period 1870-1920, Keyssar concentrates on Massachusetts, where the historical materials are particularly rich, and the findings applicable to other industrial areas.
- (15) The unemployment rates that Keyssar calculates appear to be relatively modest, at least by Great Depression standards: during the worst years, in the 1870's and 1890's, unemployment was around 15 percent. Yet Keyssar rightly understands that a better way to
- (20) measure the impact of unemployment is to calculate unemployment frequencies—measuring the percentage of workers who experience any unemployment in the course of a year. Given this perspective, joblessness looms much larger.
- Keyssar also scrutinizes unemployment patterns (25) according to skill level, ethnicity, race, age, class, and gender. He finds that rates of joblessness differed primarily according to class: those in middle-class and white-collar occupations were far less likely to be unem-
- (30) ployed. Yet the impact of unemployment on a specific class was not always the same. Even when dependent on the same trade, adjoining communities could have dramatically different unemployment rates. Keyssar uses these differential rates to help explain a phenomenon
- (35) that has puzzled historians—the startlingly high rate of geographical mobility in the nineteenth-century United States. But mobility was not the dominant working-class strategy for coping with unemployment, nor was assistance from private charities or state agencies. Self-help (40) and the help of kin got most workers through jobless
- spells.
- ing the implications of his findings on joblessness for contemporary public policy, his study, in its thorough (45) research and creative use of quantitative and qualitative evidence, is a model of historical analysis.
- 1. The passage is primarily concerned with

- Student Bounty.com (A) recommending a new course of investigation
- (B) summarizing and assessing a study
- (C) making distinctions among categories
- (D) criticizing the current state of a field
- (E) comparing and contrasting two methods for calculating data
- 2. The passage suggests that before the early 1970's, which of the following was true of the study by historians of the working class in the United States?
 - (A) The study was infrequent or superficial, or both.
 - (B) The study was repeatedly criticized for its allegedly narrow focus.
 - (C) The study relied more on qualitative than quantitative evidence.
 - (D) The study focused more on the working-class community than on working-class culture.
 - (E) The study ignored working-class joblessness during the Great Depression.
- 3. According to the passage, which of the following is true of Keyssar's findings concerning unemployment in Massachusetts?
 - (A) They tend to contradict earlier findings about such unemployment.
 - (B) They are possible because Massachusetts has the most easily accessible historical records.
 - (C) They are the first to mention the existence of high rates of geographical mobility in the nineteenth century.
 - (D) They are relevant to a historical understanding of the nature of unemployment in other states.
 - (E) They have caused historians to reconsider the role of the working class during the Great Depression.
- While Keyssar might have spent more time develop-4. According to the passage, which of the following is true of the unemployment rates mentioned in line 15
 - (A) They hovered, on average, around 15 percent during the period 1870-1920.
 - (B) They give less than a full sense of the impact of unemployment on working-class people.
 - (C) They overestimate the importance of middle class

and white-collar unemployment.

- (D) They have been considered by many historians to underestimate the extent of working-class unemployment.
- (E) They are more open to question when calculated for years other than those of peak recession.
- 5. Which of the following statements about the unemployment rate during the Great Depression can be inferred from the passage?
 - (A) It was sometimes higher than 15 percent.
 - (B) It has been analyzed seriously only since the early 1970's.
 - (C) It can be calculated more easily than can unemployment frequency.
 - (D) It was never as high as the rate during the 1870's.
 - (E) It has been shown by Keyssar to be lower than previously thought.
- 6. According to the passage, Keyssar considers which of the

following to be among the important predictors of the likelihood that a particular person would be unemployed

late nineteenth-century Massachusetts?

- I . The person's class
- II. Where the person lived or worked
- III. The person's age
- (A) I only

in

- (B) II only
- (C) I and II only
- (D) I and III only
- (E) I, II, and III
- 7. The author views Keyssar's study with
 - (A) impatient disapproval
 - (B) wary concern
 - (C) polite skepticism
 - (D) scrupulous neutrality
 - (E) qualified admiration

- 8. Which of the following, if true, would most strongly support Keyssar's findings as they are described by the author?
 - (A) Boston, Massachusetts, and Quincy, Massachusetts, adjoining communities, had a higher rate of unemployment for working-class people in 1870 than in 1890.
 - (B) White-collar professionals such as attorneys had as much trouble as day laborers in maintaining a steady level of employment throughout the period 1870-1920.
 - (C) Working-class women living in Cambridge, Massachusetts, were more likely than working-class men living in Cambridge to be unemployed for some period of time during the year 1873.
 - (D) In the 1890's, shoe-factory workers moved away in large numbers from Chelmsford, Massachusetts, where shoe factories were being replaced by other industries, to adjoining West Chelmsford, where the shoe industry flourished.
 - (E) In the late nineteenth century, workers of all classes in Massachusetts were more likely than workers of all classes in other states to move their place of residence from one location to another within the state.

Passage 31

The number of women directors appointed to corporate boards in the United States has increased dramatically, but the ratio of female to male directors remains low. Although pressure to recruit women directors,

(5) unlike that to employ women in the general work force, does not derive from legislation, it is nevertheless real.

Although small companies were the first to have women directors, large corporations currently have a higher percentage of women on their boards. When the (10) chairs of these large corporations began recruiting women to serve on boards, they initially sought women who were chief executive officers (CEO's) of large corporations. However, such women CEO's are still rare. In

addition, the ideal of six CEO's (female or male) serving

(15) on the board of each of the largest corporations is devel-

able only if every CEO serves on six boards. This women raises

the specter of director overcommitment and theserve resultant

dilution of contribution. Consequently, the chairs next sought women in business who had the equivalent of CEO experience. However, since it is only recently that

manage-

ment, the chairs began to recruit women of high achieve-

ment outside the business world. Many such women are

well known for their contributions in government,

- education, and the nonprofit sector. The fact that the women from these sectors who were appointed were often acquaintances of the boards' chairs seems quite reasonable: chairs have always considered it important for directors to interact comfortably in the boardroom.
- Although many successful women from outside 30) the

business world are unknown to corporate leaders, these

women are particularly qualified to serve on boards because of the changing nature of corporations. Today

- a company's ability to be responsive to the concerns of the
- community and the environment can influence that 35) company's growth and survival. Women are uniquely positioned to be responsive to some of these concerns. Although conditions have changed, it should be

bered that most directors of both sexes are over fifty years old. Women of that generation were often encour-

remem-

Student Bounty Com aged to direct their attention toward efforts to im the community. This fact is reflected in the card

opment of most of the outstandingly successful

of the generation now in their fifties, who currently

(45) on corporate boards: 25 percent are in education and 22 percent are in government, law, and the nonprofit sector.

One organization of women directors is helping business become more responsive to the changing needs of large numbers of women have begun to rise in 50) society by raising the level of corporate awareness about

> social issues, such as problems with the economy, government regulation, the aging population, and the environment. This organization also serves as a resource center of information on accomplished women who are potential candidates for corporate boards.

- 1. The author of the passage would be most likely to agree with which of the following statements about achievement of the "ideal" mentioned in line 14?
 - (A) It has only recently become a possibility.
 - (B) It would be easier to meet if more CEO's were women
 - (C) It is very close to being a reality for most corporate boards.
 - (D) It might affect the quality of directors' service to corporations.
 - (E) It would be more realizable if CEO's had a more extensive range of business experience.
- 2. According to the passage, the pressure to appoint women to corporate boards differs from the pressure to employ women in the work force in which of the following ways?
- (A) Corporate boards are under less pressure because they

have such a small number of openings.

(B) Corporate boards have received less pressure from

- stockholders, consumers, and workers within companies to include women on their boards.
- (C) Corporate boards have received less pressure from the media and the public to include women on their boards.
- (D) Corporations have only recently been pressured to include women on their boards.
- (E) Corporations are not subject to statutory penalty for failing to include women on their boards.
- 3. All of the following are examples of issues that the organization described in the last paragraph would be likely to advise corporations on EXCEPT
 - (A) long-term inflation
 - (B) health and safety regulations
 - (C) retirement and pension programs
 - (D) the energy shortage
 - (E) how to develop new markets
- 4. It can be inferred from the passage that, when seeking to appoint new members to a corporation's board, the chair traditionally looked for candidates who
 - (A) had legal and governmental experience
 - (B) had experience dealing with community affairs
 - (C) could work easily with other members of the board
 - (D) were already involved in establishing policy for that corporation
 - (E) had influential connections outside the business world
- 5. According to the passage, which of the following is true about women outside the business world who are currently serving on corporate boards?
 - (A) Most do not serve on more than one board.
 - (B) A large percentage will eventually work on the staff of corporations.
 - (C) Most were already known to the chairs of the board to which they were appointed.
 - (D) A larger percentage are from government and law than are from the nonprofit sector.
 - (E) Most are less than fifty years old.

- 6. The passage suggests that corporations of the past differ from modern corporations in which of the following ways?
 - (A) Corporations had greater input on government policies affecting the business community.
 - (B) Corporations were less responsive to the financial needs of their employees.
 - (C) The ability of a corporation to keep up with changing markets was not a crucial factor in its success.
 - (D) A corporation's effectiveness in coping with community needs was less likely to affect its growth and prosperity.
 - (E) Corporations were subject to more stringent government regulations.
- 7. Which of the following best describes the organization of the passage?
 - (A) A problem is described, and then reasons why various proposed solutions succeeded or failed are discussed.
 - (B) A problem is described, and then an advantage of resolving it is offered.
 - (C) A problem is described, and then reasons for its continuing existence are summarized.
 - (D) The historical origins of a problem are described, and then various measures that have successfully resolved it are discussed.
 - (E) The causes of a problem are described, and then its effects are discussed.
- 8. It can be inferred from the passage that factors making women uniquely valuable members of modern corporate boards would include which of the following?
 - I . The nature of modern corporations
 - II. The increased number of women CEO's
 - III. The careers pursued by women currently available to serve on corporate boards
 - (A) I only
 - (B) II only

- (C) III only
- (D) I and III only
- (E) I, II, and III

Increasingly, historians are blaming diseases imported from the Old World for the staggering disparity between the indigenous population of America in 1492—new estimates of which soar as high as 100 million, or approxi-(5) mately one-sixth of the human race at that time—and the few million full-blooded Native Americans alive at the end of the nineteenth century. There is no doubt that chronic disease was an important factor in the precipitous decline, and it is highly probable that the greatest (10) killer was epidemic disease, especially as manifested in virgin-soil epidemics.

Virgin-soil epidemics are those in which the populations at risk have had no previous contact with the diseases that strike them and are therefore immunologi-

- (15) cally almost defenseless. That virgin-soil epidemics were important in American history is strongly indicated by evidence that a number of dangerous maladies-smallpox, measles, malaria, yellow fever, and undoubtedly several more—were unknown in the pre-Columbian
- (20) New World. The effects of their sudden introduction are demonstrated in the early chronicles of America, which contain reports of horrendous epidemics and steep population declines, confirmed in many cases by recent quantitative analyses of Spanish tribute records and
- (25) other sources. The evidence provided by the documents 2. According to the passage, virgin-soil epidemics can be of British and French colonies is not as definitive because the conquerors of those areas did not establish permanent settlements and begin to keep continuous records until the seventeenth century, by which time the
- (30) worst epidemics had probably already taken place. Furthermore, the British tended to drive the native populations away, rather than enslaving them as the Spaniards did, so that the epidemics of British America occurred beyond the range of colonists' direct (35) observation.

Student Bounty Com Even so, the surviving records of North America contain references to deadly epidemics among the indige nous population. In 1616-1619 an epidemic, possibly of bubonic or pneumonic plague, swept coastal New

- 40) England, killing as many as nine out of ten. During the 1630's smallpox, the disease most fatal to the Native American people, eliminated half the population of the Huron and Iroquois confederations. In the 1820's fever devastated the people of the Columbia River area,
- (45) killing eight out of ten of them.

Unfortunately, the documentation of these and other epidemics is slight and frequently unreliable, and it is ecessary to supplement what little we do know with evidence from recent epidemics among Native Ameri-

- (50) cans. For example, in 1952 an outbreak of measles among the Native American inhabitants of Ungava Bay. Quebec, affected 99 percent of the population and killed 7 percent, even though some had the benefit of modern medicine. Cases such as this demonstrate that even
- (55) diseases that are not normally fatal can have devastating consequences when they strike an immunologically defenseless community.
- 1. The primary purpose of the passage is to
 - (A) refute a common misconception
 - (B) provide support for a hypothesis
 - (C) analyze an argument
 - (D) suggest a solution to a dilemma
 - (E) reconcile opposing viewpoints
- distinguished from other catastrophic outbreaks of disease in that virgin-soil epidemics
 - (A) recur more frequently than other chronic diseases
 - (B) affect a minimum of one-half of a given population
 - (C) involve populations with no prior exposure to a disease
 - (D) usually involve a number of interacting diseases
 - (E) are less responsive to medical treatment than are other diseases

- 3. According to the passage, the British colonists wereunlike the Spanish colonists in that the British colonists
 - (A) collected tribute from the native population
 - (B) kept records from a very early date
 - (C) drove Native Americans off the land
 - (D) were unable to provide medical care against epidemic disease
 - (E) enslaved the native populations in America
- 4. Which of the following can be inferred from the passage concerning Spanish tribute records?
 - (A) They mention only epidemics of smallpox.
 - (B) They were instituted in 1492.
 - (C) They were being kept prior to the seventeenth century.
 - (D) They provide quantitative and qualitative evidence about Native American populations.
 - (E) They prove that certain diseases were unknown in the pre-Columbian New World.
- 5. The author implies which of the following about measles?
 - (A) It is not usually a fatal disease.
 - (B) It ceased to be a problem by the seventeenth century.
 - (C) It is the disease most commonly involved in virginsoil epidemics.
 - (D) It was not a significant problem in Spanish colonies.
 - (E) It affects only those who are immunologically defenseless against it.
- 6. Which of the following can be inferred from the passage about the Native American inhabitants of Ungava Bay?
 - (A) They were almost all killed by the 1952 epidemic.
 - (B) They were immunologically defenseless against measles
 - (C) They were the last native people to be struck by a virgin- soil epidemic.
 - (D) They did not come into frequent contact with white Americans until the twentieth century.
 - (E) They had been inoculated against measles.

- 7. The author mentions the 1952 measles outbreak most probably in order to
 - (A) demonstrate the impact of modern medicine on epidemic disease
 - (B) corroborate the documentary evidence of epidemic disease in colonial America
 - (C) refute allegations of unreliability made against the historical record of colonial America
 - (D) advocate new research into the continuing problem of epidemic disease
 - (E) challenge assumptions about how the statistical evidence of epidemics should be interpreted
- 8. Which of the following, if newly discovered, would most seriously weaken the author's argument concerning the importance of virgin-soil epidemics in the depopulation of Native Americans?
 - (A) Evidence setting the pre-Columbian population of the New World at only 80 million
 - (B) Spanish tribute records showing periodic population fluctuations
 - (C) Documents detailing sophisticated Native American medical procedures
 - (D) Fossils indicating Native American cortact with smallpox prior to 1492
 - (E) Remains of French settlements dating back to the sixteenth century

Until recently most astronomers believed that the space between the galaxies in our universe was a nearperfect vacuum. This orthodox view of the universe is now being challenged by astronomers who believe that a (5) heavy "rain" of gas is falling into many galaxies from the supposedly empty space around them. The gas apparently condenses into a collection of small stars, each a little larger than the planet Jupiter. These stars vastly outnumber the other stars in a given galaxy. The (10) amount of "intergalactic rainfall" into some of these

galaxies has been enough to double their mass in the time since they formed. Scientists have begun to suspect that this intergalactic gas is probably a mixture of gases left over from the "big bang" when the galaxies were (15) formed and gas was forced out of galaxies by supernova explosions.

It is well known that when gas is cooled at a constant pressure its volume decreases. Thus, the physicist Fabian reasoned that as intergalactic gas cools, the cooler gas (20) shrinks inward toward the center of the galaxy. Mean-

- while its place is taken by hotter intergalactic gas from farther out on the edge of the galaxy, which cools as it is compressed and flows into the galaxy. The net result is a continuous flow of gas, starting as hot gases in inter-
- (25) galactic space and ending as a drizzle of cool gas called a "cooling flow," falling into the central galaxy.

A fairly heretical idea in the 1970's, the cooling-flow theory gained support when Fabian observed a cluster of galaxies in the constellation Perseus and found the

- (30) central galaxy, NGC 1275, to be a strange-looking object \(\beta\). It can be inferred from the passage that, if Fabian is with irregular, thin strands of gas radiating from it. According to previous speculation, these strands were gases that had been blown out by an explosion in the galaxy. Fabian, however, disagreed. Because the strands
- (35) of gas radiating from NGC 1275 are visible in optical photographs, Fabian suggested that such strands consisted not of gas blown out of the galaxy but of cooling flows of gas streaming inward. He noted that the wavelengths of the radiation emitted by a gas would changes as the
- (40) gas cooled, so that as the gas flowed into the galaxy and became cooler, it would emit not x-rays, but visible light, like that which was captured in the photographs. Fabian's hypothesis was supported by Canizares' determination in 1982 that most of the gas in the Perseus cluster was at a
- (45) temperature of 80 million degrees Kelvin, whereas the gas immediately surrounding NGC 1275 (the subject of the photographs) was at one-tenth this temperature.
- 1. The primary purpose of the passage is to
 - (A) illustrate a hypothesis about the origin of galaxies
 - (B) provide evidence to dispute an accepted theory

- about the evolution of galaxies
- Student Bounty.com (C) summarize the state of and prospects for research intergalactic astronomy
- (D) report new data on the origins of intergalactic gas
- (E) reconcile opposing views on the formation of intergalactic gas
- 2. The author uses the phrase "orthodox view of the universe" (line 3) to refer to the belief that
 - (A) the space between the galaxies is devoid of matter
 - (B) the space between galaxies is occupied by stars that cannot be detected by optical photographs
 - (C) galaxies have decreased in mass by half since their formation
 - (D) galaxies contain stars, each the size of Jupiter, which form clusters
 - (E) galaxies are being penetrated by gas forced out of other galaxies by supernova explosions.
- correct, gas in the peripheral regions of a galaxy cluster
 - (A) streams outward into intergalactic space
 - (B) is hotter than gas in the central regions of the galaxy
 - (C) is composed primarily of gas left over from the big bang
 - (D) results in the creation of unusually large stars
 - (E) expands to increase the size of the galaxy
- 4. The author of the passage probably mentions Canizares' determination in order to
 - (A) clarify an ambiguity in Fabian's research findings
 - (B) illustrate a generalization about the temperature of gas in a galaxy cluster
 - (C) introduce a new argument in support of the orthodox view of galaxies
 - (D) provide support for Fabian's assertions about the Perseus galaxies
 - (E) provide an alternate point of view concerning the movement of gas within a galaxy cluster
- 5. According to the passage, Fabian believes that gas flowing into a central galaxy has which of the following

characteristics?

- (A) It is one-tenth hotter than it was in the outer regions of the galaxy cluster.
- (B) It emits radiation with wavelengths that change as the gas moves toward the center of the galaxy.
- (C) The total amount of radiation emitted diminishes as the gas cools.
- (D) It loses 90 percent of its energy as it moves to the center of the galaxy.
- (E) It condenses at a rate much slower than the rate of decrease in temperature as the gas flows inward.
- 6. According to the passage, Fabian's theory makes use of which of the following principles?
 - (A) Gas emanating from an explosion will be hotter the more distant it is from the origin.
 - (B) The wavelength of radiation emitted by a gas as it cools remains constant.
 - (C) If pressure remains constant, the volume of a gas will decrease as it is cooled.
 - (D) The volume of a gas will increase as the pressure increases.
 - (E) As gas cools, its density decreases.
- 7. It can be inferred from the passage that which of the following is true of Fabian's theory?
 - (A) It did not receive approval until Canizares' work was published.
 - (B) It was not widely accepted in the 1970's.
 - (C) It did not receive support initially because technology was not available to confirm its tenets.
 - (D) It supports earlier speculation that intergalactic gas was largely the result of explosions outside the galaxy.
 - (E) It was widely challenged until x-ray evidence of gas temperatures in NGC 1275 had been presented.

Passage 34

Kazuko Nakane's history of the early Japanese immi-

grants to central California's Pajaro Valley focuses of the development of farming communities there from 1890 to 1940. The Issei (first-generation immigrants)

- 5) were brought into the Pajaro Valley to raise sugar beets. Like Issei laborers in American cities, Japanese men in rural areas sought employment via the "boss" system. The system comprised three elements: immigrant wage laborers; Issei boardinghouses where laborers stayed;
- (10) and labor contractors, who gathered workers for a particular job and then negotiated a contract between workers and employer. This same system was originally utilized by the Chinese laborers who had preceded the Japanese. A related institution was the "labor club,"
- ment contracts and other legal matters, such as the rental of land, for Issei who chose to belong and paid an annual fee to the cooperative for membership.
- When the local sugar beet industry collapsed in 1902, (20) the Issei began to lease land from the valley's strawberry farmers. The Japanese provided the labor and the crop was divided between laborers and landowners. The Issei began to operate farms, they began to marry and start families, forming an established Japanese American
- agricultural independence were hampered by government restrictions, such as the Alien Land Law of 1913. But immigrants could circumvent such exclusionary laws by leasing or purchasing land in their American-born (35) children's names.

Nakane's case study of one rural Japanese American community provides valuable information about the lives and experiences of the Isseil. It is, however, too particularistic. This limitation derives from Nakane's (40) methodology—that of oral history—which cannot substitute for a broader theoretical or comparative perspective. Furture research might well consider two issues raised by her study: were the Issei of the Pajaro Valley similar to or different from Issei in urban settings, (45) and what variations existed between rural Japanese American communities?

- 1. The primary purpose of the passage is to
 - (A) defend a controversial hypothesis presented in a history of early Japanese immigrants to Califronia
 - (B) dismiss a history of an early Japanese settlement in California as narrow and ill constructed
 - (C) summarize and critique a history of an early Japanese settlement in California
 - (D) compare a history of one Japanese American community with studies of Japanese settlements throughout California
 - (E) examine the differences between Japanese and Chinese immigrants to central California in the 1890's
- 2. Which of the following best describes a "labor club," as defined in the passage?
 - (A) An organization to which Issei were compelled to belong if they sought employment in the Pajaro Valley
 - (B) An association whose members included labor contractors and landowning "bosses"
 - (C) A type of farming corporation set up by Issei who had resided in the Pajaro Valley for some time
 - (D) A cooperative association whose members were dues-paying Japanese laborers
 - (E) A social organization to which Japanese laborers and their families belonged
- 3. Based on information in the passage, which of the following statements concerning the Alien Land Law of 1913 is most accurate?
 - (A) It excluded American-born citizens of Japanese ancestry from landownership.
 - (B) It sought to restrict the number of foreign immigrants to California.
 - (C) It successfully prevented Issei from ever purchasing farmland.
 - (D) It was applicable to first-generation immigrants but not to their American-born children.
 - (E) It was passed under pressure from the Pajaro Valley's strawberry farmers.

- 4. Several Issei families join together to purchase a strawberry field and the necessary farming equipment.

 Such a situation best exemplifies which of the following, as it is described in the passage?
 - (A) A typical sharecropping agreement
 - (B) A farming corporation
 - (C) A "labor club"
 - (D) The "boss" system
 - (E) Circumvention of the Alien Land Law
- 5. The passage suggests that which of the following was an indirect consequence of the collapse of the sugar beet industry in the Pajaro Valley?
 - (A) The Issei formed a permanent, family-based community.
 - (B) Boardinghouses were built to accommodate the Issei.
 - (C) The Issei began to lease land in their children's names.
 - (D) The Issei adopted a labor contract system similar to that used by Chinese immigrants.
 - (E) The Issei suffered a massive dislocation caused by unemployment.
- 6. The author of the passage would most likely agree that which of the following, if it had been included in Nakane's study, would best remedy the particularistic nature of that study?
 - (A) A statistical table comparing per capita income of Issei wage laborers and sharecroppers in the Pajaro Valley
 - (B) A statistical table showing per capita income of Issei in the Pajaro Valley from 1890 to 1940
 - (C) A statistical table showing rates of farm ownership by Japanese Americans in four central California counties from 1890 to 1940
 - (D) A discussion of original company documents dealing with the Pajaro Valley sugar beet industry at the turn of the century

- (E) Transcripts of interviews conducted with members of the Pajaro Valley Japanese American community who were born in the 1920's and 1930's.
- 7. It can be inferred from the passage that, when the Issei began to lease land from the Valley's strawberry farmers, the Issei most probably did which of the following?
 - (A) They used profits made from selling the strawberry crop to hire other Issei.
 - (B) They negotiated such agricultural contracts using the "boss" system.
 - (C) They paid for the use of the land with a share of the strawberry crop.
 - (D) They earned higher wages than when they raised sugar beets.
 - (E) They violated the Alien Land Law.

It can be argued that much consumer dissatisfaction

with marketing strategies arises from an inability to aim advertising at only the likely buyers of a given product. There are three groups of consumers who are affected (5) by the marketing process. First, there is the market segment—people who need the commodity in question. Second, there is the program target—people in the market segment with the "best fit" characteristics for a specific product. Lots of people may need trousers, but (10) only a few qualify as likely buyers of very expensive designer trousers. Finally, there is the program audience

—all people who are actually exposed to the marketing program without regard to whether they need or want the product.

(15) These three groups are rarely identical. An exception occurs occasionally in cases where customers for a particular industrial product may be few and easily identifiable. Such customers, all sharing a particular need, are likely to form a meaningful target, for example, all
(20) companies with a particular application of the product

in question, such as high-speed fillers of bottles at beeries. In such circumstances, direct selling (marketing that reaches only the program target) is likely to be economically justified, and highly specialized trade (25) media exist to expose members of the program target—and only members of the program target—to the marketing program.

Most consumer-goods markets are significantly different. Typically, there are many rather than few 30) potential customers. Each represents a relatively small percentage of potential sales. Rarely do members of a particular market segment group themselves neatly into a meaningful program target. There are substantial differences among consumers with similar demographic (35) characteristics. Even with all the past decade's advances in information technology, direct selling of consumer goods is rare, and mass marketing—a marketing approach that aims at a wide audience—remains the only economically feasible mode. Unfortunately, there (40) are few media that allow the marketer to direct a marketing program exclusively to the program target. Inevitably, people get exposed to a great deal of marketing for products in which they have no interest and so they become annoyed.

- 1. The passage suggests which of the following about highly specialized trade media?
 - (A) They should be used only when direct selling is not economically feasible.
 - (B) They can be used to exclude from the program audience people who are not part of the program target.
 - (C) They are used only for very expensive products.
 - (D) They are rarely used in the implementation of marketing programs for industrial products.
 - (E) They are used only when direct selling has not reached the appropriate market segment.
- 2. According to the passage, most consumer-goods markets share which of the following characteristics?
 - I . Customers who differ significantly from each other

- II. Large numbers of potential customers
- III. Customers who each represent a small percentage of potential sales
- (A) I only
- (B) II only
- (C) I and II only
- (D) II and III only
- (E) I, II, and III
- 3. The passage suggests which of the following about direct selling?
 - (A) It is used in the marketing of most industrial products.
 - (B) It is often used in cases where there is a large program target.
 - (C) It is not economically feasible for most marketing programs.
 - (D) It is used only for products for which there are many potential customers.
 - (E) It is less successful at directing a marketing program to the target audience than are other marketing approaches.
- 4. The author mentions "trousers" (lines 9 and 11) most likely in order to
 - (A) make a comparison between the program target and the program audience
 - (B) emphasize the similarities between the market segment and the program target
 - (C) provide an example of the way three groups of consumers are affected by a marketing program
 - (D) clarify the distinction between the market segment and the program target
 - (E) introduce the concept of the program audience
- 5. Which of the following best exemplifies the situation described in the last two sentences of the passage?
 - (A) A product suitable for women age 21-30 is marketed at meetings attended only by potential customers.
 - (B) A company develops a new product and must develop an advertising campaign to create a market

for it.

- Student Bounty Com (C) An idea for a specialized product remains unexplored because media exposure of the product to its few potential customers would be too expensive.
- (D) A new product is developed and marketers collect demographic data on potential consumers before developing a specific advertising campaign.
- (E) A product suitable for men age 60 and over is advertised in a magazine read by adults of all ages.
- 6. The passage suggests that which of the following is true about the marketing of industrial products like those discussed in the third paragraph?
 - (A) The market segment and program target are identical.
 - (B) Mass marketing is the only feasible way of advertising such products.
 - (C) The marketing program cannot be directed specifically to the program target.
 - (D) More customers would be needed to justify the expense of direct selling.
 - (E) The program audience would necessarily be made up of potential customers, regardless of the marketing approach that was used.
- 7. The passage supports which of the following statements about demographic characteristics and marketing?
 - (A) Demographic research is of no use in determining how successful a product will be with a particular group of consumers.
 - (B) A program audience is usually composed of people with similar demographic characteristics.
 - (C) Psychological factors are more important than demographic factors in defining a market segments.
 - (D) Consumers with similar demographic characteristics do not necessarily form a meaningful program target.
 - (E) Collecting demographic data is the first step that marketers take in designing a marketing program.

- 8. It can be inferred from the passage that which of the following is true for most consumer-goods markets?
 - (A) The program audience is smaller than the market segment.
 - (B) The program audience and the market segment are usually identical.
 - (C) The market segment and the program target are usually identical.
 - (D) The program target is larger than the market segment.
 - (E) The program target and the program audience are not usually identical.

Protein synthesis begins when the gene encoding a protein is activated. The gene's sequence of nucleotides is transcribed into a molecule of messenger RNA (mRNA), which reproduces the information contained in that (5) sequence. Transported outside the nucleus to the cytoplasm, the mRNA is translated into the protein it encodes by an organelle known as a ribosome, which strings together amino acids in the order specified by the sequence of elements in the mRNA molecule. Since the (10) amount of mRNA in a cell determines the amount of the corresponding protein, factors affecting the abundance of mRNA's play a major part in the normal functioning of a cell by appropriately regulating protein synthesis. For example, an excess of certain proteins can cause cells (15) to proliferate abnormally and become cancerous; a lack of the protein insulin results in diabetes.

Biologists once assumed that the variable rates at which cells synthesize different mRNA's determine the quantities of mRNA's and their corresponding proteins (20) in a cell. However, recent investigations have shown that the concentrations of most mRNA's correlate best, not with their synthesis rate, but rather with the equally variable rates at which cells degrade the different mRNA's in their cytoplasm. If a cell degrades both a rapidly and (25) a slowly synthesized mRNA slowly, both mRNA's will accumulate to high levels.

Student Bounty.com An important example of this phenomenon is development of red blood cells from their unspecialize parent cells in bone marrow. For red blood cells to accu-30) mulate sufficient concentrations of hemoglobin (which transports oxygen) to carry out their main function, the cells' parent cells must simultaneously produce more of the constituent proteins of hemoglobin and less of most other proteins. To do this, the parent cells halt synthesis (35) of nonhemoglobin mRNA's in the nucleus and rapidly degrade copies of the nonhemoglobin mRNA's remaining in the cytoplasm. Halting synthesis of mRNA alone would not affect the quantities of proteins synthesized by the mRNA's still existing in the cytoplasm. Biologists now 40) believe that most cells can regulate protein production most efficiently by varying both mRNA synthesis and degradation, as developing red cells do, rather than by

- The passage is primarily concerned with discussing the
 (A) influence of mRNA concentrations on the
 - development of red blood cells

just varying one or the other.

- (B) role of the synthesis and degradation of mRNA in cell functioning
- (C) mechanism by which genes are transcribed into mRNA
- (D) differences in mRNA concentrations in cell nuclei and in the cytoplasm
- (E) way in which mRNA synthesis contributes to the onset of diabetes
- 2. The passage suggests that a biologist who held the view described in the first sentence of the second paragraph would most probably also have believed which of the following?
 - (A) The rate of degradation of specific mRNA's has little effect on protein concentrations.
 - (B) The rate of degradation of specific mRNA's should be studied intensively.
 - (C) The rates of synthesis and degradation for any given mRNA are normally equal.
 - (D) Different mRNA's undergo degradation at widely

varying rates.

- (E) Most mRNA's degrade very rpaidly.
- 3. Which of the following best describes the relationship between the second and third paragraphs of the passage?
 - (A) The second paragraph presents arguments in support of a new theory and the third paragraph presents arguments against that same theory.
 - (B) The second paragraph describes a traditional view and the third paragraph describes the view that has replaced it on the basis of recent investigations.
 - (C) The third paragraph describes a specific case of a phenomenon that is described generally in the second paragraph.
 - (D) The third paragraph describes an investigation that was undertaken to resolve problems raised by phenomena described in the second paragraph.
 - (E) Both paragraphs describe in detail specific examples of the phenomenon that is introduced in the first paragraph.
- 4. The accumulation of concentrations of hemoglobin in red blood cells is mentioned in the passage as an example of which of the following?
 - (A) The effectiveness of simultaneous variation of the rates of synthesis and degradation of mRNA
 - (B) The role of the ribosome in enabling a parent cell to develop properly into a more specialized form
 - (C) The importance of activating the genes for particular proteins at the correct moment
 - (D) The abnormal proliferation of a protein that threatens to make the cell cancerous
 - (E) The kind of evidence that biologists relied on for support of a view of mRNA synthesis that is now considered obsolete
- 5. To begin to control a disease caused by a protein deficiency, the passage suggests that a promising experimental treatment would be to administer a drug that would reduce
 - (A) only the degradation rate for the mRNA of the protein involved

- (B) only the synthesis rate for the mRNA of the protinvolved
- (C) both the synthesis and degradation rates for the mRNA of the protein involved
- (D) the incidence of errors in the transcription of mRNA's from genetic nucleotide sequences
- (E) the rate of activity of ribosomes in the cytoplasm of most cells
- 6. According to the passage, which of the following best describes the current view on the relationship between the synthesis and the degradation of mRNA in regulating protein synthesis?
 - (A) Biologists have recently become convinced that the ribosome controls the rates of synthesis and degradation of mRNA.
 - (B) There is no consensus among biologists as to the significance of mRNA degradation in regulating protein synthesis.
 - (C) The concept of mRNA degradation is so new that most biologists still believe that the vital role in protein regulation belongs to mRNA synthesis.
 - (D) Degradation of mRNA is now considered to be the key process and mRNA synthesis is no longer believed to play a significant role.
 - (E) Degradation of mRNA is now considered to be as important as mRNA synthesis has been, and still is, believed to be.
- 7. According to the passage, which of the following can happen when protein synthesis is not appropriately regulated?
 - (A) Diabetes can result from errors that occur when the ribosomes translate mRNA into protein.
 - (B) Cancer can result from an excess of certain proteins and diabetes can result from an insulin deficiency.
 - (C) A deficiency of red blood cells can occur if bone marrow cells produce too much hemoglobin.
 - (D) Cancer can be caused by excessively rapid degradation of certain amino acids in the cytoplasm of cells.

- (E) Excessive synthesis of one protein can trigger increased degradation of mRNA's for other proteins and create severe protein imbalances.
- 8. The passage suggests that a biologist who detected high levels of two proteins in a certain type of cell would be likely to consider which of the following as a possible explanation?
 - (A) The rate of mRNA degradation for one of the proteins increases as this type of cell develops a more specialized function.
 - (B) The two proteins are most likely constituents of a complex substance supporting the cells' specialized function.
 - (C) The cells are likely to proliferate abnormally and possibly become cancerous due to the levels of these proteins.
 - (D) The mRNA's for both proteins are being degraded at a low rate in that type of cell.
 - (E) The mRNA's for the two proteins are being synthesized at identical rates in that type of cell.

Japanese firms have achieved the highest levels of manufacturing efficiency in the world automobile industry. Some observers of Japan have assumed that Japanese firms use the same manufacturing equipment (5) and techniques as United States firms but have benefited from the unique characteristics of Japanese employees and the Japanese culture. However, if this were true, then one would expect Japanese auto plants in the United States to perform no better than factories (10) run by United States companies. This is not the case, Japanese-run automobile plants located in the United States and staffed by local workers have demonstrated higher levels of productivity when compared with facto- 2. The author suggests that if the observers of Japan ries owned by United States companies.

(15) Other observers link high Japanese productivity to higher levels of capital investment per worker. But a historical perspective leads to a different conclusion.

Student Bounty Com When the two top Japanese automobile makers matched and then doubled United States productivity (20) levels in the mid-sixties, capital investment per employee was comparable to that of United States firms. Furthermore, by the late seventies, the amount of fixed assets required to produce one vehicle was roughly equivalent in Japan and in the United States.

25) Since capital investment was not higher in Japan, it had to be other factors that led to higher productivity.

A more fruitful explanation may lie with Japanese production techniques. Japanese automobile producers did not simply implement conventional processes more (30) effectively: they made critical changes in United States procedures. For instance, the mass-production philosophy of United States automakers encouraged the production of huge lots of cars in order to utilize fully expensive, component-specific equipment and to

- (35) occupy fully workers who have been trained to execute one operation efficiently. Japanese automakers chose to make small-lot production feasible by introducing several departures from United States practices, including the use of flexible equipment that could be
- (40) altered easily to do several different production tasks and the training of workers in multiple jobs. Automakers could schedule the production of different components or models on single machines, thereby eliminating the need to store the buffer stocks of extra
- (45) components that result when specialized equipment and workers are kept constantly active.
- 1. The primary purpose of the passage is to
 - (A) present the major steps of a process
 - (B) clarify an ambiguity
 - (C) chronicle a dispute
 - (D) correct misconceptions
 - (E) defend an accepted approach
- mentioned in line 3 were correct, which of the following would be the case?
 - (A) The equipment used in Japanese automobile plants would be different from the equipment used in

- United States plants.
- (B) Japanese workers would be trained to do several different production jobs.
- (C) Culture would not have an influence on the productivity levels of workers.
- (D) The workers in Japanese-run plants would have higher productivity levels regardless of where they were located.
- (E) The production levels of Japanese-run plants located in the United States would be equal to those of plants run by United States companies.
- 3. Which of the following statements concerning the productivity levels of automakers can be inferred from the passage?
 - (A) Prior to the 1960's, the productivity levels of the top Japanese automakers were exceeded by those of United States automakers.
 - (B) The culture of a country has a large effect on the productivity levels of its automakers.
 - (C) During the late 1970's and early 1980's, productivity levels were comparable in Japan and the United States.
 - (D) The greater the number of cars that are produced in a single lot, the higher a plant's productivity level.
 - (E) The amount of capital investment made by automobile manufacturers in their factories determines the level of productivity.
- 4. According to the passage, which of the following statements is true of Japanese automobile workers?
 - (A) Their productivity levels did not equal those of United States automobile workers until the late seventies.
 - (B) Their high efficiency levels are a direct result of cultural influences.
 - (C) They operate component-specific machinery.
 - (D) They are trained to do more than one job.
 - (E) They produce larger lots of cars than do workers in United States factories.

- 5. Which of the following best describes the organizate of the first paragraph?
 - (A) A thesis is presented and supporting examples are provided.
 - (B) Opposing views are presented, classified, and then reconciled.
 - (C) A fact is stated, and an explanation is advanced and then refuted.
 - (D) A theory is proposed, considered, and then amended.
 - (E) An opinion is presented, qualified, and then reaffirmed.
- 6. It can be inferred from the passage that one problem associated with the production of huge lots of cars is which of the following?
 - (A) The need to manufacture flexible machinery and equipment
 - (B) The need to store extra components not required for immediate use
 - (C) The need for expensive training programs for workers, which emphasize the development of facility in several production jobs.
 - (D) The need to alter conventional mass-production processes
 - (E) The need to increase the investment per vehicle in order to achieve high productivity levels
- 7. Which of the following statements is supported by information stated in the passage?
 - (A) Japanese and United States automakers differ in their approach to production processes.
 - (B) Japanese automakers have perfected the use of single-function equipment.
 - (C) Japanese automakers invest more capital per employee than do United States automakers.
 - (D) United States-owned factories abroad have higher production levels than do Japanese owned plants in the United States.
 - (E) Japanese automakers have benefited from the cultural heritage of their workers.

- 8. With which of the following predictive statement regarding Japanese automakers would the author most likely agree?
 - (A) The efficiency levels of the Japanese automakers will decline if they become less flexible in their approach to production
 - (B) Japanese automakers productivity levels double during the late 1990's.
 - (C) United States automakes will originate net production processes before Japanese automakers do.
 - (D) Japanese automakers will hire fewer workers than will United States automakers because each worker is required to perform several jobs.
 - (E) Japanese automakers will spend less on equipment repairs than will United States automakers because Japanese equipment can be easily altered.

It was once believed that the brain was independent of metabolic processes occurring elsewhere in the body. In recent studies, however, we have discovered that the production and release in brain neurons of the neuro-(5) transmitter serotonin (neurotransmitters are compounds that neurons use to transmit signals to other cells) depend directly on the food that the body processes. Our first studies sought to determine whether the increase in serotonin observed in rats given a large injec-(10)tion of the amino acid tryptophan might also occur after rats ate meals that change tryptophan levels in the blood. We found that, immediately after the rats began to eat, parallel elevations occurred in blood tryptophan, brain tryptophan, and brain serotonin levels. These find-(15) ings suggested that the production and release of serotonin in brain neurons were normally coupled with blood-tryptophan increases. In later studies we found that injecting insulin into a rat's bloodstream also caused parallel elevations in blood and brain tryptophan levels (20) and in serotonin levels. We then decided to see whether

the secretion of the animal's own insulin similarly afterserotonin production. We gave the rats a carbohydrate-containing meal that we knew would elicit insulin secretion. As we had hypothesized, the blood tryptophan (25) level and the concentrations of tryptophan serotonin in the brain increased after the meal.

Surprisingly, however, when we added a large amount of protein to the meal, brain tryptophan and serotonin levels fell. Since protein contains tryptophan,

- (30) why should it depress brain tryptophan levels? The answer lies in the mechanism that provides blood tryptophan to the brain cells. This same mechanism also provides the brain cells with other amino acids found in protein, such as tyrosine and leucine. The consumption
- (35) of protein increases blood concentration of the other amino acids much more, proportionately, than it does that of tryptophan. The more protein in the meal, the lower is the ratio of the resulting blood-tryptophan concentration to the concentration of competing amino
- (40) acids, and the more slowly is tryptophan provided to the brain. Thus the more protein in a meal, the less serotonin subsequently produced and released.
- 1. Which of the following titles best summarizes the contents of the passage?
 - (A) Neurotransmitters: Their Crucial Function in Cellular Communication
 - (B) Diet and Survival: An Old Relationship Reexamined
 - (C) The Blood Supply and the Brain: A Reciprocal Dependence
 - (D) Amino Acids and Neurotransmitters: The Connection Between Serotonin Levels and Tyrosine
 - (E) The Effects of Food Intake on the Production and Release of Serotonin: Some Recent Findings
- According to the passage, the speed with which tryptophan is provided to the brain cells of a rat varies with the
 - (A) amount of protein present in a meal
 - (B) concentration of serotonin in the brain before a meal
 - (C) concentration of leucine in the blood rather than on

- the concentration of tyrosine in the blood after a
- (D) concentration of tryptophan in the brain before a
- (E) number of serotonin-containing neurons present in the brain before a meal
- 3. According to the passage, when the authors began their first studies, they were aware that
 - (A) they would eventually need to design experiments that involved feeding rats high concentrations of protein
 - (B) tryptophan levels in the blood were difficult to monitor with accuracy
 - (C) serotonin levels increased after rats were fed meals rich in tryptophan
 - (D) there were many neurotransmitters whose production was dependent on metabolic processes elsewhere in the body.
 - (E) serotonin levels increased after rats were injected with a large amount of tryptophan
- 4. According to the passage, one reason that the authors gave rats carbohydrates was to
 - (A) depress the rats' tryptophan levels
 - (B) prevent the rats from contracting diseases
 - (C) cause the rats to produce insulin
 - (D) demonstrate that insulin is the most important substance secreted by the body
 - (E) compare the effect of carbohydrates with the effect of proteins
- 5. According to the passage, the more protein a rat consumes, the lower will be the
 - (A) ratio of the rat's blood-tryptophan concentration to the amount of serotonin produced and released in the rat's brain
 - (B) ratio of the rat's blood-tryptophan concentration to the concentration in its blood of the other amino acids contained in the protein
 - (C) ratio of the rat's blood-tyrosine concentration to its blood-leucine concentration

- Student Bounty Com (D) number of neurotransmitters of any kind that the will produce and release
- (E) number of amino acids the rat's blood will contain
- 6. The authors' discussion of the "mechanism that provides blood tryptophan to the brain cells" (lines 31-32) is meant to
 - (A) stimulate further research studies
 - (B) summarize an area of scientific investigation
 - (C) help explain why a particular research finding was obtained
 - (D) provide supporting evidence for a controversial scientific theory
 - (E) refute the conclusions of a previously mentioned research study
- 7. According to the passage, an injection of insulin was most similar in its effect on rats to an injection of
 - (A) tyrosine
 - (B) leucine
 - (C) blood
 - (D) tryptophan
 - (E) protein
- 8. It can be inferred from the passage that which of the following would be LEAST likely to be a potential source of aid to a patient who was not adequately producing and releasing serotonin?
 - (A) Meals consisting almost exclusively of protein
 - (B) Meals consisting almost exclusively of carbohydrates
 - (C) Meals that would elicit insulin secretion
 - (D) Meals that had very low concentrations of tyrosine
 - (E) Meals that had very low concentrations of leucine
- 9. It can be inferred from the passage that the authors initially held which of the following hypotheses about what would happen when they fed large amounts of protein to rats?
 - (A) The rats' brain serotonin levels would not decrease.
 - (B) The rats' brain tryptophan levels would decrease

- (C) The rats' tyrosine levels would increase less quickly than would their leucine levels
- (D) The rats would produce more insulin.
- (E) The rats would produce neurotransmitters other than serotonin.

Historians sometimes forget that history is conunually being made and experienced before it is studied, interpreted, and read. These latter activities have their own history, of course, which may impinge in unex-

- (5) pected ways on public events. It is difficult to predict when "new pasts" will overturn established historical interpretations and change the course of history.
 - In the fall of 1954, for example, C. Vann Woodward delivered a lecture series at the University of Virginia
- (10) which challenged the prevailling dogma concerning the history, continuity, and uniformity of racial segregation in the South. He argued that the Jim Crow laws of the late nineteenth and early twentieth centuries not only codified traditional practice but also were a determined
- (15) effort to erase the considerable progress made by Black people during and after Reconstruction in the 1870's. This revisionist view of Jim Crow legislation grew in Part from the research that Woodward had done for the NAACP legal campaign during its preparation for
- (20) Brown v. Board of Education. The Supreme Court had issued its ruling in this epochal desegregation case a few months before Woodward's lectures.
 - The lectures were soon published as a book. The Strange Career of Jim Crow. Ten years later, in a
- (25) preface to the second revised edition. Woodward confessed with ironic modesty that the first edition "had begun to suffer under some of the handicaps that might be expected in a history of the American Revolution published in 1776." That was a bit like hearing
- (30) Thomas Paine apologize for the timing of his pamphlet Common Sense, which had a comparable impact. Although Common Sense also had a mass readership. Paine had intended to reach and inspire: he was not a

- historian, and thus not concerned with accuracy
- SkudentBounty.com 35) dangers of historical anachronism. Yet, like Paine, Woodward had an unerring sense of the revolutionary moment, and of how historical evidence could undermine the mythological tradition that was crushing the dreams of new social possibilities. Martin Luther King,
- (40) Jr.. testified to the profound effect of *The Strange* Career of Jim Crow on the civil rights movement by praising the book and quoting it frequently.
- 1. The "new pasts" mentioned in line 6 can best be described as the
 - (A) occurrence of events extremely similar to past events
 - (B) history of the activities of studying, interpreting, and reading new historical writing
 - (C) change in people's understanding of the past due to more recent historical writing
 - (D) overturning of established historical interpretations by politically motivated politicians
 - (E) difficulty of predicting when a given historical interpretation will be overturned
- 2. It can be inferred from the passage that the "prevailling dogma" (line 10) held that
 - (A) Jim Crow laws were passed to give legal status to well-established discriminatory practices in the South
 - (B) Jim Crow laws were passed to establish order and uniformity in the discriminatory practices of different southern states.
 - (C) Jim Crow laws were passed to erase the social gains that Black people had achieved since Reconstruction
 - (D) the continuity of racial segregation in the South was disrupted by passage of Jim Crow laws
 - (E) the Jim Crow laws of the late nineteenth and early twentieth centuries were passed to reverse the effect of earlier Jim Crow laws
- 3. Which of the following is the best example of writing that is likely to be subject to the kinds of "handicaps"

referred to in line 27?

- (A) A history of an auto manufacturing plant written by an employee during an autobuying boom
 - (B) A critique of a statewide school-desegregation plan written by an elementary school teacher in that state
 - (C) A newspaper article assessing the historical importance of a United States President written shortly after the President has taken office
 - (D) A scientific paper describing the benefits of a certain surgical technique written by the surgeon who developed the technique
 - (E) Diary entries narrating the events of a battle written by a soldier who participated in the battle
- 4. The passage suggests that C. Vann Woodward and Thomas Paine were similar in all of the following ways EXCEPT:
 - (A) Both had works published in the midst of important historical events.
 - (B) Both wrote works that enjoyed widespread popularity.
 - (C) Both exhibited an understanding of the relevance of historical evidence to contemporary issues.
 - (D) The works of both had a significant effect on events following their publication.
 - (E) Both were able to set aside worries about historical anachronism in order to reach and inspire.
- 5. The attitude of the author of the passage toward the work of C. Vann Woodward is best described as one of
 - (A) respectful regard
 - (B) qualified approbation
 - (C) implied skepticism
 - (D) pointed criticism
 - (E) fervent advocacy
- 6. Which of the following best describes the new idea expressed by C. Vann Woodward in his University of Virginia lectures in 1954?
 - (A) Southern racial segregation was continuous and uniform.

- Student Bounty.com (B) Black people made considerable progress only Reconstruction.
- (C) Jim Crow legislation was conventional in nature.
- (D) Jim Crow laws did not go as far in codifying traditional practice as they might have.
- (E) Jim Crow laws did much more than merely reinforce a tradition of segregation.

Passage 40

Joseph Glarthaar's Forged in Battle is not the first excellent study of Black soldiers and their White officers in the Civil War, but it uses more soldiers' letters and diaries including rare material from Black soldiers—and concen-

- 5) rates more intensely on Black-White relations in Black regiments than do any of its predecessors. Glathaar's title expresses his thesis: loyalty, friendship, and respect among White officers and Black soldiers were fostered by the mutual dangers they faced in combat.
- 10) Glarthaar accurately describes the government's discriminatory treatment of Black soldiers in pay, promotion, medi cal care, and job assignments, appropriately emphasizing the campaign by Black soldiers and their officers to get the opportunity to fight. That chance remained limited through
- 15) out the war by army policies that kept most Black units serving in rear-echelon assignments and working in labor battalions. Thus, while their combat death rate was only one-third that of White units, their mortality rate from disease, a major killer in his war, was twice as great.
- (20) Despite these obstacles, the courage and effectiveness of several Black units in combat won increasing respect from initially skeptical or hostile White soldiers. As one White officer put it, "they have fought their way into the respect of all the army."
- (25) In trying to demonstrate the magnitude of this attitudinal change, however, Glarthaar seems to exaggerate the prewar racism of the White men who became officers in Black regiments. "Prior to the war," he writes of these men, "virtually all of them held powerful racial prejudices."
- (30) While perhaps true of those officers who joined Black

units for promotion or other self-serving motives, this statement misrepresents the attitudes of the many abolitionists

who became officers in Black regiments. Having spent

years fighting against the race prejudice endemic in Ameri-

(35) can society; they participated eagerly in this military exper-

iment, which they hoped would help Africanthat it Americans

achieve freedom and postwar civil equality. Bythose current

standards of racial egalitarianism, these men's paternalism

toward African Americans was racist. But to call their

(40) feelings "powerful racial prejudices" is to indulge in
generational chauvinism—to judge past eras by
present

standards.

1. The passage as a whole can best be characterized as which of

the following?

- (A) An evaluation of a scholarly study
- (B) A description of an attitudinal change
- (C) A discussion of an analytical defect
- (D) An analysis of the causes of a phenomenon
- (E) An argument in favor of revising a view

2. According to the author, which of the following is truewere of

Glarthaar's Forged in Battle compared with previous studies

on the same topic?

(A) It is more reliable and presents a more complete picture

of the historical events on which it concentrates than do previous studies.

(B) It uses more of a particular kind of source material

and focuses more closely on a particular aspect of the topic

than do previous studies.

(C) It contains some unsupported generalizations, but it rightly emphasizes a theme ignored by most previous

studies.

(D) It surpasses previous studies on the same topic in that it
accurately describes conditions often neglected by those

studies.

(E) It makes skillful use of supporting evidence to illustrate a

subtle trend that previous studies have failed to detect.

3. The author implies that the title of Glatthaar's book refers

specifically to which of the following?

(A) The sense of pride and accomplishment that Black soldiers increasingly felt as a result of their Civil War

experiences

(B) The civil equality that African Americans achieved after

the Civil War, partly as a result of their use of organizational skills honed by combat

(C) The changes in discriminatory army policies that

made as a direct result of the performance of Black combat units during the Civil War

(D) The improved interracial relations that were formed

the races' facing of common dangers and their waging

of a common fight during the Civil War

(E) The standards of racial egalitarianism that came to

adopted as a result of White Civil War veterans'

he

by

repudiation of the previous racism

- 4. The passage mentions which of the following as an important theme that receives special emphasis in Glarthaar's book?
 - (A) The attitudes of abolitionist officers in Black units
- (B) The struggle of Black units to get combat assignments
- (C) The consequences of the poor medical care received by

Black soldiers

- (D) The motives of officers serving in Black units
- (E) The discrimination that Black soldiers faced when trying

for promotions

5. The passage suggests that which of the following was 7. Which of the following best describes the kind of error true of

Black units' disease mortality rates in the Civil War?

(A) They were almost as high as the combat mortality rates

of White units.

(B) They resulted in part from the relative inexperience interpretation of

these units when in combat.

(C) They were especially high because of the nature of these

units' usual duty assignments.

(D) They resulted in extremely high overall casualty rates in

Black combat units.

(E) They exacerbated the morale problems that were caused

by the army's discriminatory policies.

- 6. The author of the passage quotes the White officer inevent lines
- 23-24 primarily in order to provide evidence to support given the

contention that

attitudes

toward Black soldiers

Student Bounty Com (B) Black soldiers were often forced to defend themselves

from physical attacks initiated by soldiers from White

units

- (C) the combat performance of Black units changed the attitudes of White soldiers toward Black soldiers
- (D) White units paid especially careful attention to the performance of Black units in battle
- (E) respect in the army as a whole was accorded only to those units, whether Black or White, that performed well

in battle

- attributed to Glarthaar in lines 25-28?
 - (A) Insisting on an unwarranted distinction between two groups of individuals in order to render an argument concerning them internally consistent
- (B) Supporting an argument in favor of a given
 - of a situation with evidence that is not particularly relevant to the situation
- (C) Presenting a distorted view of the motives of certain individuals in order to provide grounds for a negative

evaluation of their actions

(D) Describing the conditions prevailing before a given event in such a way that the contrast with those prevailing after the event appears more striking than

actually is

- (E) Asserting that a given event is caused by another
 - merely because the other event occurred before the

event occurred

(A) virtually all White officers initially had hostile8. Which of the following actions can best be described as

indulging in "generational chauvinism" (lines 40-41) as(20) that the tree of life had only two stems. Mor that

practice is defined in the passage?

- many monarchs have been tyrannical in the past.
- (B) Clinging to the formal standards of politeness common
 - in one's youth to such a degree that any relaxation of those standards is intolerable
 - (C) Questioning the accuracy of a report written by an employee merely because of the employee's gender.
- past

eras without acknowledging the prevalence of irrational

beliefs today.

(E) Labeling a nineteenth-century politician as "corrupt" (35) from a common ancestor, and the reconstruction of ancesfor engaging in once-acceptable practices considered intolerable today.

Passage 41

It was once assumed that all living things could be divided into two fundamental and exhaustive categories. Multicellular plants and animals, as well as many unicellular organisms, are eukaryotic—their large, complex cells

- (5) have a well-formed nucles and many organelles. On the other hand, the true bacteria are prokaryotic cell, which are simple and lack a nucleus. The distinction between eukaryotes and bacteria, initially defined in terms of subcellular structures visible with a microscope, was ulti-
- (10) mately carried to the molecular level. Here prokaryotic and eukaryotic cells have many features in common. For instance, they translate genetic information into proteins according to the same type of genetic coding. But even where the molecular processes are the same, the details in
- (15) the two forms are different and characteristic of the respective forms. For example, the amino acid sequences of various enzymes tend to be typically prokaryotic or eukaryotic. The differences between the groups and the similarities within each group made it seem certain to most biologists

Student Bounty Com argu-

ments pointing out the extent of both structural and func-(A) Condemning a present-day monarch merely because tional differences between eukaryotes and true bacteria convinced many biologists that the precursors of the eukaryotes must have diverged from the common ancestor before the bacteria arose.

Although much of this picture has been sustained by more recent research, it seems fundamentally wrong in one respect. Among the bacteria, there are organisms that are significantly different both from the cells of eukaryotes and (D) Deriding the superstitions accepted as "science" in (30) from the true bacteria, and it now appears that there are three stems in the tree of life. New techniques for determining the molecular sequence of the RNA of organisms have produced evolutionary information about the degree to which organisms are related, the time since they diverged

- tral versions of genes. These techniques have strongly suggested that although the true bacteria indeed form a large coherent group, certain other bacteria, the archaebacteria, which are also prokaryotes and which resemble true (40) bacteria, represent a distinct evolutionary branch that
- far antedates the common ancestor of all true bacteria.
- 1. The passage is primarily concerned with
 - (A) detailing the evidence that has led most biologists to replace the trichotomous picture of living organisms with a dichotomous one
 - (B) outlining the factors that have contributed to the current hypothesis concerning the number of basic categories of living organisms
 - (C) evaluating experiments that have resulted in proof that the prokaryotes are more ancient than had been expected.
 - (D) summarizing the differences in structure and function found among true bacteria, archaebacteria, and eukaryotes
 - (E) formulating a hypothesis about the mechanisms of evolution that resulted in the ancestors of the prokaryotes

- 2. According to the passage, investigations of eukaryotic and prokaryotic cells at the molecular level supported the conclusion that
 - (A) most eukaryotic organisms are unicellular
 - (B) complex cells have well-formed nuclei
 - (C) prokaryotes and cukaryotes form two fundamental categories
 - (D) subcellular structures are visible with a microscope
 - (E) prokaryotic and eukaryotic cells have similar enzymes
- 3. According to the passage, which of the following statements about the two-category hypothesis is likely to be true?
- (A) It is promising because it explains the presence of true
 - bacteria-like organisms such as organelles in eukaryotic cells.
 - (B) It is promising because it explains why eukaryotic cells, unlike prokaryotic cells, tend to form multicellular organisms.
 - (C) It is flawed because it fails to account for the great variety among eukaryotic organisms.
 - (D) It is flawed because it fails to account for the similarity between prokaryotes and eukaryotes.
 - (E) It is flawed because it fails to recognize an important distinction among prokaryotes.
- 4. It can be inferred from the passage that which of the following have recently been compared in order to clarify the fundamental classifications of living things?
 - (A) The genetic coding in true bacteria and that in other prokaryotes
 - (B) The organelle structures of archaebacteria, true bacteria, and eukaryotes
 - (C) The cellular structures of multicellular organisms and unicellular organisms
 - (D) The molecular sequences in eukaryotic RNA, true bacterial RNA, and archaebacterial RNA
 - (E) The amino acid sequences in enzymes of various eukaryotic species and those of enzymes in

archaebecterial species

- Student Bounty.com 5. If the "new techniques" mentioned in line 31 were applied in studies of biological classifications other than bacteria, which of the following is most likely?
 - (A) Some of those classifications will have to be reevaluated.
 - (B) Many species of bacteria will be reclassified
 - (C) It will be determined that there are four main categories of living things rather than three.
 - (D) It will be found that true bacteria are much older than eukaryotes.
 - (E) It will be found that there is a common ancestor of the eukaryotes, archaebacteria, and true bacteria.
- 6. According to the passage, researchers working under the two-category hypothesis were correct in thinking that
 - (A) prokaryotes form a coherent group
- (B) the common ancestor of all living things had complex

properties

- (C) eukaryotes are fundamentally different from true bacteria
 - (D) true bacteria are just as complex as eukaryotes
 - (E) ancestral versions of eukaryotic genes functioned differently from their modern counterparts.
- 7. All of the following statements are supported by the passage

EXCEPT:

- (A) True bacteria form a distinct evolutionary group.
- (B) Archaebacteria are prokaryotes that resemble true bacteria.
- (C) True bacteria and eukaryotes employ similar types of

genetic coding.

(D) True bacteria and eukaryotes are distinguishable at the

subcellular level.

(E) Amino acid sequences of enzymes are uniform for eukaryotic and prokaryotic organisms.

8. The author's attitude toward the view that living things are

divided into three categories is best described as one of

- (A) tentative acceptance
- (B) mild skepticism
- (C) limited denial
- (D) studious oriticism
- (E) whole hearted endorsement

Passage 42

Excess inventory, a massive problem for many businesses, has several causes, some of which are unavoidable Overstocks may accumulate through production overruns or errors. Certain styles and colors prove unpopular. With (5) some products—computers and software, toys, and books—last year's models are difficult to move even at huge discounts. Occasionally the competition introduces a better product. But in many cases the public's buying tastes simply change, leaving a manufacturer or distributor with (10) thousands (or millions) of items that the fickle public no longer wants.

One common way to dispose of this merchandise is to sell it to a liquidator, who buys as cheaply as possible and then resells the merchandise through catalogs, discount

- (15) stores, and other outlets. However, liquidators may pay less for the merchandise than it cost to make it. Another way to dispose of excess inventory is to dump it. The corporation takes a straight cost write-off on its taxes and hauls the merchandise to a landfill. Although it is hard to believe,
- (20) there is a sort of convoluted logic to this approach. It is perfectly legal, requires little time or preparation on the company's part, and solves the problem quickly. The drawback is the remote possibility of getting caught by the news media. Dumping perfectly useful products can turn into a
- (25) public relations nightmare. Children living in poverty are freezing and XYZ Company has just sent 500 new snowsuits to the local dump. Parents of young children are barely getting by and QPS Company dumps 1,000 cases of disposable diapers because they have slight imperfections.

- 30) The managers of these companies are not deliberate wasteful; they are simply unaware of all their alternatives. In 1976 the Internal Revenue Service provided a tangible incentive for businesses to contribute their products to charity. The new tax law allowed corporations to deduct the (35)cost of the product donated plus half the difference between cost and fair market selling price, with the proviso that deductions cannot exceed twice cost. Thus, the federal government sanctions—indeed, encourages—an above-cost federal tax deduction for companies that donate inventory to charity.
- The author mentions each of the following as a cause of excess inventory EXCEPT
 - (A) production of too much merchandise
 - (B) inaccurate forecasting of buyers' preferences
 - (C) unrealistic pricing policies
 - (D) products' rapid obsolescence
 - (E) availability of a better product
- 2. The passage suggests that which of the following is a kind of product that a liquidator who sells to discount stores would be unlikely to wish to acquire?
 - (A) Furniture
 - (B) Computers
 - (C) Kitchen equipment
 - (D) Baby-care products
 - (E) Children's clothing
- takes a straight cost write-off on its taxes and hauls the merchandise to a landfill. Although it is hard to believe, the following statements?
 - (A) Excess inventory results most often from insufficient market analysis by the manufacturer.
 - (B) Products with slight manufacturing defects may contribute to excess inventory.
 - (C) Few manufacturers have taken advantage of the changes in the federal tax laws.
 - (D) Manufacturers who dump their excess inventory are often caught and exposed by the news media.
 - (E) Most products available in discount stores have come from manufacturers' excess-inventory stock.

- 4. The author cites the examples in lines 25-29 most probably in order to illustrate
 - (A) the fiscal irresponsibility of dumping as a policy for dealing with excess inventory
 - (B) the waste-management problems that dumping new products creates
 - (C) the advantages to the manufacturer of dumping as a
 - (D) alternatives to dumping explored by different companies
 - (E) how the news media could portray dumping to the detriment of the manufacturer's reputation
- 5. By asserting that manufacturers "are simply unaware" (line 31), the author suggests which of the following?
 - (A) Manufacturers might donate excess inventory to charity rather than dump it if they knew about the provision in the federal tax code.
 - (B) The federal government has failed to provide sufficient encouragement to manufacturers to make use of advantageous tax policies.
 - (C) Manufacturers who choose to dump excess inventory are not aware of the possible effects on their reputation of media coverage of such dumping.
 - (D) The manufacturers of products disposed of by dumping are unaware of the needs of those people who would find the products useful.
 - (E) The manufacturers who dump their excess inventory are not familiar with the employment of liquidators to dispose of overstock.
- 6. The information in the passage suggests that which of the following, if true, would make donating excess inv entory to charity less attractive to manufacturers than dumping?
 - (A) The costs of getting the inventory to the charitable destination are greater than the above-cost tax deduction.
 - (B) The news media give manufacturers' charitable contributions the same amount of coverage that they

- give dumping.
- Student Bounty.com (C) No straight-cost tax benefit can be claimed for iter that are dumped.
- (D) The fair-market value of an item in excess inventory is 1.5 times its cost.
- (E) Items end up as excess inventory because of a change in the public's preferences.
- 7. Information in the passage suggests that one reason manufacturers might take advantage of the tax provision mentioned in the last paragraph is that
 - (A) there are many kinds of products that cannot be legally dumped in a landfill
 - (B) liquidators often refuse to handle products with slight imperfections
 - (C) the law allows a deduction in excess of the cost of manufacturing the product
 - (D) media coverage of contributions of excess-inventory products to charity is widespread and favorable
 - (E) no tax deduction is available for products dumped or sold to a liquidator

Historians of women's labor in the United States at first largely disregarded the story of female service workers -women earning wages in occupations such as salesclerk. domestic servant, and office secretary. These historians (5) focused instead on factory work, primarily because it seemed so different from traditional, unpaid "women's work" in the home, and because the underlying economic forces of industrialism were presumed to be gender-blind and hence emancipatory in effect. Unfortunately, emanci-(10) pation has been less profound than expected, for not even industrial wage labor has escaped continued sex segregation in the workplace.

To explain this unfinished revolution in the status of women, historians have recently begun to emphasize the 15) way a prevailing definition of femininity often etermines the kinds of work allocated to women, even when such allocation is inappropriate to new conditions. For instance, early textile-mill entrepreneurs, in justifying women's employment in wage labor, made much of the assumption

- (20) that women were by nature skillful at detailed tasks and patient in carrying out repetitive chores; the mill owners thus imported into the new industrial order hoary stereotypes associated with the homemaking activities they presumed to have been the purview of women. Because
- (25) women accepted the more unattractive new industrial tasks more readily than did men, such jobs came to be regarded 3. It can be inferred from the passage that early historians as female jobs. And employers, who assumed that women's "real" aspirations were for marriage and family life. declined to pay women wages commensurate with those of
- (30) men. Thus many lower-skilled, lower-paid, less secure jobs came to be perceived as "female."

More remarkable than the origin has been the persistence of such sex segregation in twentieth-century industry. Once an occupation came to be perceived as "female." employers

- (35) showed surprisingly little interest in changing that perception, even when higher profits beckoned. And despite the urgent need of the United States during the Second World War to mobilize its human resources fully, job segregation by sex characterized even the most important
- 40) war industries. Moreover, once the war ended, employers quickly returned to men most of the "male" jobs that women had been permitted to master.
- 1. According to the passage, job segregation by sex in the United States was
 - (A) greatly diminlated by labor mobilization during the Second World War
 - (B) perpetuated by those textile-mill owners who argued in favor of women's employment in wage labor
 - (C) one means by which women achieved greater job security
 - (D) reluctantly challenged by employers except when the economic advantages were obvious
 - (E) a constant source of labor unrest in the young textile industry
- 2. According to the passage, historians of women's labor focused on factory work as a more promising area of

Student Bounty Com research than service-sector work because factory

- (A) involved the payment of higher wages
- (B) required skill in detailed tasks
- (C) was assumed to be less characterized by sex segregation
- (D) was more readily accepted by women than by men
- (E) fitted the economic dynamic of industrialism better
- of women's labor in the United States paid little attention to women's employment in the service sector of the economy because
 - (A) the extreme variety of these occupations made it very difficult to assemble meaningful statistics about them
 - (B) fewer women found employment in the service sector than in factory work
 - (C) the wages paid to workers in the service sector were much lower than those paid in the industrial sector
 - (D) women's employment in the service sector tended to be much more short-term than in factory work
 - (E) employment in the service sector seemed to have much in common with the unpaid work associated with homemaking
- 4. The passage supports which of the following statements about the early mill owners mentioned in the second paragraph?
 - (A) They hoped that by creating relatively unattractive "female" jobs they would discourage women from losing interest in marriage and family life.
 - (B) They sought to increase the size of the available labor force as a means to keep men's to keep men's wages low.
 - (C) They argued that women were inherently suited to do well in particular kinds of factory work.
 - (D) They thought that factory work bettered the condition of women by emancipating them from dependence on income earned by men.
 - (E) They felt guilty about disturbing the traditional division of labor in family.

- 5. It can be inferred from the passage that the "unfinished revolution" the author mentions in line 13 refers to the
 - (A) entry of women into the industrial labor market
 - (B) recognition that work done by women as homemakers should be compensated at rates comparable to those prevailing in the service sector of the economy
 - (C) development of a new definition of femininity unrelated to the economic forces of industrialism
 - (D) introduction of equal pay for equal work in all professions
 - (E) emancipation of women wage earners from genderdetermined job allocation
- 6. The passage supports which of the following statements about hiring policies in the United States?
 - (A) After a crisis many formerly "male" jobs are reclassified as "female" jobs.
 - (B) Industrial employers generally prefer to hire women with previous experience as homemakers.
 - (C) Post-Second World War hiring policies caused women to lose many of their wartime gains in employment opportunity.
 - (D) Even war industries during the Second World War were reluctant to hire women for factory work.
 - (E) The service sector of the economy has proved more nearly gender-blind in its hiring policies than has the manufacturing sector.
- 7. Which of the following words best expresses the opinion of the author of the passage concerning the notion that women are more skillful than men in carrying out detailed tasks?
 - (A) "patient" (line 21)
 - (B) "repetitive" (line 21)
 - (C) "hoary" (line 22)
 - (D) "homemaking" (line 23)
 - (E) "purview" (line 24)

- 8. Which of the following best describes the relationsh the final paragraph to the passage as a whole?
 - (A) The central idea is reinforced by the citation of evidence drawn from twentieth-century history.
 - (B) The central idea is restated in such a way as to form a transition to a new topic for discussion.
 - (C) The central idea is restated and juxtaposed with evidence that might appear to contradic it.
 - (D) A partial exception to the generalizations of the central idea is dismissed as unimportant.
 - (E) Recent history is cited to suggest that the central idea's validity is gradually diminishing.

According to a recent theory, Archean-age gold-quartz vein systems were formed over two billion years ago from magmatic fluids that originated from molten granitelike bodies deep beneath the surface of the Earth. This theory is (5) contrary to the widely held view that the systems were deposited from metamorphic fluids, that is, from fluids that formed during the dehydration of wet sedimentary rocks. he recently developed theory has considerable practical importance. Most of the gold deposits discovered during (10) the original gold rushes were exposed at the Earth's surface and were found because they had shed trails of alluvial gold that were easily traced by simple prospecting methods. Although these same methods still lead to an occasional discovery, most deposits not yet discovered have gone 15) undetected because they are buried and have no surface expression.

The challenge in exploration is therefore to unravel the subsurface geology of an area and pinpoint the position of buried minerals. Methods widely used today include (20) analysis of aerial images that yield a broad geological overview; geophysical techniques that provide data on the magnetic, electrical, and mineralogical properties of the rocks being investigated; and sensitive chemical tests that are able to detect the subtle chemical halos that often (25) envelop mineralization. However, none of these high-

technology methods are of any value if the sites to which they are applied have never mineralized, and to maximize the chances of discovery the explorer must therefore pay particular attention to selecting the ground formations most (30) likely to be mineralized. Such ground selection relies to varying degrees on conceptual models, which take into account theoretical studies of relevant factors.

These models are constructed primarily from empirical observations of known mineral deposits and from theories 35) of ore-forming processes. The explorer uses the models to identify those geological features that are critical to the formation of the mineralization being modeled, and then tries to select areas for exploration that exhibit as many of the critical features as possible.

- 1. The author is primarily concerned with
 - (A) advocating a return to an older methodology
 - (B) explaining the importance of a recent theory
 - (C) enumerating differences between two widely used methods
 - (D) describing events leading to a discovery
 - (E) challenging the assumptions on which a theory is based
- 2. According to the passage, the widely held view of Archean- age gold-quartz vein systems is that such systems
 - (A) were formed from metamorphic fluids
 - (B) originated in molten granitelike bodies
 - (C) were formed from alluvial deposits
 - (D) generally have surface expression
 - (E) are not discoverable through chemical tests
- 3. The passage implies that which of the following steps would be the first performed by explorers who wish to maximize their chances of discovering gold?
 - (A) Surveying several sites known to have been formed more than two billion years ago
 - (B) Limiting exploration to sites known to have been formed from metamorphic fluid.
 - (C) Using an appropriate conceptual model to select a

- site for further exploration
- SHIIDENT BOUNTS COM (D) Using geophysical methods to analyze rocks over broad area
- (E) Limiting exploration to sites where alluvial gold has previously been found
- 4. Which of the following statements about discoveries of gold deposits is supported by information in the passage?
- (A) The number of gold discoveries made annually has increased between the time of the original gold rushes and the present.
- (B) New discoveries of gold deposits are likely to be the result of exploration techniques designed to locate buried mineralization.
- (C) It is unlikely that newly discovered gold deposits will ever yield as much as did those deposits discovered during the original gold rushes.
- (D) Modern explorers are divided on the question of the utility of simple prospecting methods as a source of new discoveries of gold deposits.
- (E) Models based on the theory that gold originated from magmatic fluids have already led to new discoveries of gold deposits.
- 5. It can be inferred from the passage that which of the following is easiest to detect?
 - (A) A gold-quartz vein system originating in magmatic
 - (B) A gold-quartz vein system originating in meamorphic fluids
 - (C) A gold deposit that is mixed with granite
 - (D) A gold deposit that has shed alluvial gold
 - (E) A gold deposit that exhibits chemical halos
- 6. The theory mentioned in line 1 relates to the conceptual models discussed in the passage in which of the following ways?
 - (A) It may furnish a valid account of ore-forming processes, and, hence, can support conceptual models that have great practical significance.

- (B) It suggests that certain geological formations, long believed to be mineralized, are in fact mineralized, thus confirming current conceptual models.
- (C) It suggests that there may not be enough similarity across Archean-age gold-quartz vein systems to warrant the formulation of conceptual models.
- (D) It corrects existing theories about the chemical halos of gold deposits, and thus provides a basis for correcting current conceptual models.
- (E) It suggests that simple prospecting methods still have a higher success rate in the discovery of gold deposits than do more modern methods.
- 7. According to the passage, methods of exploring for gold that are widely used today are based on which of the following facts?
 - (A) Most of the Earth's remaining gold deposits are still molten.
 - (B) Most of the Earth's remaining gold deposits are exposed at the surface.
 - (C) Most of the Earth's remaining gold deposits are buried and have no surface expression.
 - (D) Only one type of gold deposit warrants exploration, since the other types of gold deposits are found in regions difficult to reach.
 - (E) Only one type of gold deposit warrants exploration, since the other types of gold deposits are unlikely to yield concentrated quantities of gold.
- 8. It can be inferred from the passage that the efficiency of model-based gold exploration depends on which of the following?
 - I . The closeness of the match between the geological features identified by the model as critical and the actual geological features of a given area
 - II. The degree to which the model chosen relies on empirical observation of known mineral deposits rather than on theories of ore-forming processes
 - III. The degree to which the model chosen is based on an accurate description of the events leading to

mineralization

- (A) I only
- (B) II only
- (C) I and II only
- (D) I and III only
- (E) I, II and III

Passage 45

StudentBounts.com

While there is no blueprint for transforming a largely government-controlled economy into a free one, the experience of the United Kingdom since 1979 clearly shows one approach that works: privatization, in which (5) state-owned industries are sold to private companies. By 1979, the total borrowings and losses of state-owned industries were running at about t3 billion a year. By selling many of these industries, the government has decreased these borrowings and losses, gained over t34 (10) billion from the sales, and now receives tax revenues from the newly privatized companies. Along with a dramatically improved overall economy, the government has been able to repay 12.5 percent of the net national debt over a two-year period.

- (15) In fact, privatization has not only rescued individual industries and a whole economy headed for disaster, but has also raised the level of performance in every area. At British Airways and British Gas, for example, productivity per employee has risen by 20 percent. At associated
- (20) British Ports, labor disruptions common in the 1970's and early 1980's have now virtually disappeared. At British Telecom, there is no longer a waiting list—as there always was before privatization—to have a telephone installed. Part of this improved productivity has come about
- (25) because the employees of privatized industries were given the opportunity to buy shares in their own companies. They responded enthusiastically to the offer of shares; at British Aerospace, 89 percent of the eligible work force bought shares; at Associated British Ports, 90 percent; and at
- (30) British Telecom, 92 percent. When people have a personal stake in something, they think about it, care about it, work to make it prosper. At the National Freight Consortium,

the new employee-owners grew so concerned about their company's profits that during wage negotiations they (35) actually pressed their union to lower its wage demands. Some economists have suggested that giving away free shares would provide a needed acceleration of the privatization process. Yet they miss Thomas Paine's point that "what we obtain too cheap we esteem too lightly." In (40) order for the far-ranging benefits of individual ownership to be achieved by owners, companies, and countries, employees and other individuals must make their own

decisions to buy, and they must commit some of their own

1. According to the passage, all of the following were benefits of privatizing state-owned industries in the United Kingdom EXCEPT:

resources to the choice.

- (A) Privatized industries paid taxes to the government.
- (B) The government gained revenue from selling stateowned industries.
- (C) The government repaid some of its national debt.
- (D) Profits from industries that were still state-owned increased.
- (E) Total borrowings and losses of state-owned industries decreased.
- 2. According to the passage, which of the following resulted in increased productivity in companies that have been privatized?
 - (A) A large number of employees chose to purchase shares in their companies.
 - (B) Free shares were widely distributed to individual shareholders.
 - (C) The government ceased to regulate major industries.
 - (D) Unions conducted wage negotiations for employees.
 - (E) Employee-owners agreed to have their wages lowered.
- 3. It can be inferred from the passage that the author considers labor disruptions to be
 - (A) an inevitable problem in a weak national economy
 - (B) a positive sign of employee concern about a

- company
- Student Bounty.com (C) a predictor of employee reactions to a company's offer to sell shares to them
- (D) a phenomenon found more often in state-owned industries than in private companies
- (E) a deterrence to high performance levels in an industry
- 4. The passage supports which of the following statements about employees buying shares in their own companies?
 - (A) At three different companies, approximately nine out of ten of the workers were eligible to buy shares in their companies.
 - (B) Approximately 90% of the ellgible workers at three different companies chose o buy shares in their companies.
 - (C) The opportunity to buy shares was discouraged by at least some labor unions.
 - (D) Companies that demonstrated the highest productivity were the first to allow their employees the opportunity to buy shares.
 - (E) Eligibility to buy shares was contingent on employees' agreeing to increased work loads.
- 5. Which of the following statements is most consistent with the principle described in lines 30-32?
 - (A) A democratic government that decides it is inappropriate to own a particular industry has in no way abdicated its responsibilities as guardian of the public interest.
 - (B) The ideal way for a government to protect employee interests is to force companies to maintain their share of a competitive market without government subsidies.
 - (C) The failure to harness the power of self-interest is an important reason that state-owned industries perform poorly.
 - (D) Governments that want to implement privatization programs must try to eliminate all resistance to the free-market system.
 - (E) The individual shareholder will reap only a minute

share of the gains from whatever sacrifices he or she makes to achieve these gains.

- about the privatization process in the United Kingdom?
 - (A) It depends to a potentially dangerous degree on individual ownership of shares.
 - (B) It conforms in its most general outlines to Thomas Palne's prescription for business ownership.
 - (C) It was originally conceived to include some giving away of free shares.
 - (D) It has been successful, even though privatization has failed in other countries.
 - (E) It is taking place more slowly than some economists (25) about the future direction of the world trading system. suggest is necessary.
- 7. The quotation in line 39 is most probably used to
 - (A) counter a position that the author of the passage believes is incorrect
 - (B) state a solution to a problem described in the previous sentence
 - (C) show how opponents of the viewpoint of the author of the passage have supported their arguments
 - (D) point out a paradox contained in a controversial viewpoint
 - (E) present a historical maxim to challenge the principle introduced in the third paragraph

Passage 46

As the economic role of multinational, global corpora-

tions expands, the international economic environment will be shaped increasingly not by governments or international institutions, but by the interaction between governments (5) and global corporations, especially in the United States, β. The passage suggests which of the following about Europe, and Japan. A significant factor in this shifting world economy is the trend toward regional trading biocs of nations, which has a potentially large effect on the evolution of the world trading system. Two examples of (10) this trend are the United States-Canada Free Trade Agreement (FTA) and Europe 1992, the move by the

European Community (EC) to dismantle impediments to

Student Bounty Com the free flow of goods, services, capital, and labor ar member states by the end of 1992. However, although 6. Which of the following can be inferred from the passage (15) numerous political and economic factors were operative in launching the move to integrate the EC's markets, concern about protectionism within the EC does not appear to have been a major consideration. This is in sharp contrast to the FTA, the overwhelming reason for that bilateral initiative (20) was fear of increasing United States protectionism. Nonetheless, although markedly different in origin and nature,

> both regional developments are highly significant in that they will foster integration in the two largest and richest markets of the world, as well as provoke questions

- 1. The primary purpose of the passage as a whole is to
 - (A) describe an initiative and propose its continuance
 - (B) chronicle a development and illustrate its inconsistencies
 - (C) identify a trend and suggest its importance
 - (D) summarize a process and question its significance
 - (E) report a phenomenon and outline its probable future
- 2. According to the passage, all of the following are elements of the shifting world economy EXCEPT
 - (A) an alteration in the role played by governments
 - (B) an increase in interaction between national governments and international regulatory institutions
 - (C) an increase in the formation of multinational trading
 - (D) an increase in integration in the two richest markets of the world
 - (E) a fear of increasing United States protectionism
- global corporations?
 - (A) Their continued growth depends on the existence of a fully integrated international market.
 - (B) Their potential effect on the world market is a matter of ongoing concern to international institutions.
 - (C) They will have to assume quasi-governmental functions if current economic trends continue.

- (D) They have provided a model of economic success for regional trading blocs.
- (E) Their influence on world economics will continue to increase
- 4. According to the passage, one similarity between the FTA and Europe 1992 is that they both
 - (A) overcame concerns about the role of politics in the shifting world economy
 - (B) originated out of concern over unfair trade practices by other nations
 - (C) exemplify a trend toward regionalization of commercial markets.
 - (D) place the economic needs of the trading bloc ahead of those of the member nations
 - (E) help to ensure the continued economic viability of the world community
- 5. Which of the following can be inferred from the passage about the European Community prior to the adoption of the Europe 1992 program?
 - (A) There were restrictions on commerce between the member nations.
 - (B) The economic policies of the member nations focused on global trading issues.
 - (C) There were few impediments to trade between the member nations and the United States.
 - (D) The flow of goods between the member nations and Canada was insignificant.
 - (E) Relations between multinational corporations and the governments of the member nations were strained.
- 6. The author discusses the FTA and Europe 1992 most likely in order to
 - (A) point out the similarities between two seemingly disparate trading alliances
 - (B) illustrate how different economic motivations produce different types of trading blocs
 - (C) provide contrasting examples of a trend that is influencing the world economy

- Student Bounty.com (D) identify the most important characteristics of successful economic integration
- (E) trace the history of regional trading blocs
- 7. Which of the following best describes the organization of the passage?
 - (A) An argument is put forth and evidence for and against it given.
 - (B) An assertion is made and opposing evidence presented.
 - (C) Two hypotheses are described and shown to inconsistent with one another.
 - (D) A phenomenon is identified and illustrations of this phenomenon offered.
 - (E) A specific case of a phenomenon is discussed a generalization drawn.

In Forces of Production, David Noble examines the transformation of the machine-tool industry as the industry moved from reliance on skilled artisans to automation. Noble writes from a Marxist perspective, and his central (5) argument is that management, in its decisions to automate, conspired against labor: the power that the skilled machinists wielded in the industry was intolerable to management. Noble fails to substantiate this claim, although his argument is impressive when he applies the Marxist concept of (10) "de-skilling"—the use of technology to replace skilled labor—to the automation of the machine-tool industry. In automating, the industry moved to computer-based, digitalized "numerical-control" (N/C) technology, rather than to artisan-generated "record-playback" (R/P) technology.

- (15) Although both systems reduced reliance on skilled labor, Noble clearly prefers R/P, with its inherent acknowledgment of workers' skills: unlike N/C, its programs were produced not by engineers at their computers, but by skilled machinists, who recorded their own movements to
- (20) "teach" machines to duplicate those movements. However, Noble's only evidence of conspiracy is that, although the two approaches were roughly equal in technical merit,

- management chose N/C. From this he concludes that automation is undertaken not because efficiency demands it or 4. The passage suggests which of the following about N
- (25) scientific advances allow it, but because it is a tool in the ceaseless war of capitalists against labor.
- 1. The author of the passage is primarily concerned with
 - (A) reexamining a political position and defending its validity
 - (B) examining a management decision and defending its necessity
 - (C) analyzing a scholarly study and pointing out a central weakness
 - (D) explaining a trend in automation and warning about its dangers
 - (E) chronicling the history of an industry and criticizing its development
- 2. According to information in the passage, the term "deskilling" refers to the
 - (A) loss of skills to industry when skilled workers are replaced by unskilled laborers
 - (B) substitution of mechanized processes for labor formerly performed by skilled workers
 - (C) labor theory that automation is technologically comparable to skilled labor
 - (D) process by which skilled machinists "teach" machines to perform certain tasks
 - (E) exclusion of skilled workers from participation in the development of automated technology
- 3. Which of the following best characterizes the function of the second paragraph of the passage?
 - (A) It develops a topic introduced in the first paragraph.
 - (B) It provides evidence to refute a claim presented in the first paragraph.
 - (C) It gives examples of a phenomenon mentioned in the first paragraph.
 - (D) It presents a generalization about examples given in the first paragraph.
 - (E) It suggests two possible solutions to a problem presented in the first paragraph.

- 4. The passage suggests which of the following about N automation in the machine-tool industry?
 - (A) It displaced fewer skilled workers than R/P automation did.
 - (B) It could have been implemented either by experienced machinists or by computer engineers.
 - (C) It was designed without the active involvement skilled machinists.
 - (D) It was more difficult to design than R/P automation was.
 - (E) It was technically superior to R/P automation.
- 5. Which of the following phrases most clearly reveals the attitude of the author of the passage toward Noble's central argument?
 - (A) "conspired against" (line 6)
 - (B) "intolerable to management" (line 7)
 - (C) "impressive when he applies the Marxist concept" (line 9)
 - (D) "clearly prefers" (line 16)
 - (E) "only evidence of conspiracy" (line 21)
- 6. The author of the passage commends Noble's book for which of the following?
 - (A) Concentrating on skilled as opposed to unskilled workers in its discussion of the machine-tool industry
 - (B) Offering a generalization about the motives behind the machine-tool industry's decision to automate
 - (C) Making an essential distinction between two kinds of technology employed in the machine-tool industry
 - (D) Calling into question the notion that managers conspired against labor in the automation of the machine-tool industry
 - (E) Applying the concept of de-skilling to the machinetool industry
- 7. Which of the following best characterizes *Forces of Production* as it is described in the passage?
 - (A) A comparison of two interpretations of how a

particular industry evolved

- in industrial economics
 - (C) A study that points out the weakness of a particular interpretation of an industrial phenomenon
 - (D) A history of a particular industry from an ideological point of view
 - (E) An attempt to relate an industrial phenomenon in one industry to a similar phenomenon in another industry

Passage 48

The sensation of pain cannot accurately be described as "located" at the point of an injury, or, for that matter, in any one place in the nerves or brain. Rather, pain signals—and pain relief—are delivered through a highly (5) complex interacting circuitry.

When a cell is injured, a rush of prostaglandin's sensitizes nerve endings at the injury. Prostaglandins are chemicals produced in and released from virtually all mammalian cells when they are injured: these are the only (10) pain signals that do not originate in the nervous system. Aspirin and other similar drugs (such as indomethacin and ibuprofen) keep prostaglandins from being made by interfering with an enzyme known as prostaglandin synthetase, or cyclooxygenase. The drugs' effectiveness against pain is (15) proportional to their success in blocking this enzyme at the site of injury.

nerves feeding into the spinal cord. The long, tubular membranes of nerve cells carry electrical impulses. When (20) electrical impulses get to the spinal cord, a pain-signaling chemical known as substance P is released there. Substance P then excites nearby neurons to send impulses to the brain. Local anesthetics such as novocaine and xylocaine work by blocking the electrical transmission (25)along nerves in a particular area. They inhibit the flow of sodium ions through the membranes, making the nerves electrically quiescent; thus no pain signals are sent to the spinal cord or to the brain.

Recent discoveries in the study of pain have involved

- Student Bounty.com (B) An examination of the origin of a particular concept 30 the brain itself—the supervising organ that notices pai signals and that sends messages down to the spinal cord to regulate incoming pain traffic. Endorphins—the brain's own morphine—are a class of small peptides that help to block pain signals within the brain itself. The presence (35) of endorphins may also help to explain differences in
 - response to pain signals, since individuals seem to differ in their ability to produce endorphins. It now appears that a number of techniques for blocking chronic pain—such as acupuncture and electrical stimulation of the central
 - 40) brain stem—involve the release of endorphins in the brain and spinal cord.
 - 1. The passage is primarily concerned with
 - (A) analyzing ways that enzymes and other chemicals influence how the body feels pain
 - (B) describing the presence of endorphins in the brain and discussing ways the body blocks pain within the brain itself.
 - (C) describing how pain signals are conveyed in the body and discussing ways in which the pain signals can be blocked
 - (D) demonstrating that pain can be influenced by acupuncture and electrical stimulation of the central brain stem.
 - (E) differentiating the kinds of pain that occur at different points in the body's nervous system.
 - From nerve endings at the injury, pain signais move to 2. According to the passage, which of the following is one of the first things to occur when cells are injured?
 - (A) The flow of electrical impulses through nerve cells at the site of the injury is broken.
 - (B) The production of substance P traveling through nerve cells to the brain increases.
 - (C) Endorphins begin to speed up the response of nerve cells at the site of the injury.
 - (D) A flood of prostaglandins sensitizes nerve endings at the site of the injury.
 - (E) Nerve cells connected to the spinal cord become electrically quiescent.

- 3. Of the following, which is most likely attributable to the effect of endorphins as described in the passage?
 - (A) After an injection of novocaine, a patient has no feeling in the area where the injection was given.
 - (B) After taking ibuprofen, a person with a headache gets quick relief.
 - (C) After receiving a local anesthetic, an injured person reports relief in the anestherized area.
 - (D) After being given aspirin, a child with a badly scraped elbow feels better.
 - (E) After acupuncture, a patient with chronic back pain reports that the pain is much less severe.
- 4. It can be inferred from the passage that if the prostaglandin synthetase is only partially blocked, which of the following is likely to be true?
 - (A) Some endorphins will be produced, and some pain signals will be intensified.
 - (B) Some substance P is likely to be produced, so some pain signals will reach the brain.
 - (C) Some sodium ions will be blocked, so some pain signals will not reach the brain.
 - (D) Some prostaglandins will be produced, but production of substance P will be prevented.
 - (E) Some peptides in the brain will receive pain signals and begin to regulate incoming pain traffic.

Traditionally, the first firm to commercialize a new technology has benefited from the unique opportunity to shape product definitions, forcing followers to adapt to a standard or invest in an unproven alternative. Today, however, the leggest payers to be seen to the leggest payers to be seen to the leggest payers.

(5) ever, the largest payoffs may go to companies that lead in developing integrated approaches for successful mass production and distribution.

Producers of the Beta format for videocassette recorders (VCR's), for example, were first to develop the VCR com(10) mercially in 1975, but producers of the rival VHS (Video

Home System) format proved to be more successful forming strategic alliances with other producers and distributors to manufacture and market their VCR format Seeking to maintain exclusive control over VCR distri-

(15) bution. Beta producers were reluctant to form such alliances and eventually lost ground to VHS in the competition for the global VCR market.

Despite Beta's substantial technological head start and the fact that VHS was neither technically better nor cheaper

- (20) than Beta, developers of VHS quickly turned a slight early lead in sales into a dominant position. Strategic alignments with producers of prerecorded tapes reinforced the VHS advantage. The perception among consumers that prerecorded tapes were more available in VHS format further
- (25) expanded VHS's share of the market. By the end of the 1980's. Beta was no longer in production.
- 1. The passage is primarily concerned with which of the following?
 - (A) Evaluating two competing technologies
 - (B) Tracing the impact of a new technology by narrating a sequence of events
 - (C) Reinterpreting an event from contemporary business history
 - (D) illustrating a business strategy by means of a case history
 - (E) Proposing an innovative approach to business planning
- According to the passage, today's successful firms, unlike successful firms in the past, may earn the greatest profits by
 - (A) investing in research to produce cheaper versions of existing technology
 - (B) being the first to market a competing technology
 - (C) adapting rapidly to a technological standard previously set by a competing firm
 - (D) establishing technological leadership in order to shape product definitions in advance of competing firms.
 - (E) emphasizing the development of methods for the

- mass production and distribution of a new technology.
- 3. According to the passage, consumers began to develop a preference for VCR's in the VHS format because they believed which of the following?
 - (A) VCR's in the VHS format were technically better than competing-format VCR's.
 - (B) VCR's in the VHS format were less expensive than competing-format VCR's.
 - (C) VHS was the first standard format for VCR's.
 - (D) VHS prerecorded videotapes were more available than Beta-format tapes.
 - (E) VCR's in the Beta format would soon cease to be produced.
- 4. The author implies that one way that VHS producers won control over the VCR market was by
 - (A) carefully restricting access to VCR technology
 - (B) giving up a slight early lead in VCR sales in order to improve long-term prospects.
 - (C) retaining a strict monopoly on the production of prerecorded videotapes.
 - (D) sharing control of the marketing of VHS-format VCR's
 - (E) sacrificing technological superiority over Betaformat VCR's in order to remain competitive in price.
- 5. The alignment of producers of VHS-format VCR's with producers of prerecorded videotapes is most similar to which of the following?
 - (A) The alignment of an automobile manufacturer with another automobile manufacturer to adopt a standard design for automobile engines.
 - (B) The alignment of an automobile manufacturer with an automotive glass company whereby the manufacturer agrees to purchase automobile windshields only from that one glass company
 - (C) The alignment of an automobile manufacturer with a petroleum company to ensure the widespread availability of the fuel required by a new type of engine developed by the manufacturer.

- (D) The alignment of an automobile manufacturer wits dealers to adopt a plan to improve automobile design.
- (E) The alignment of an automobile dealer with an automobile rental chain to adopt a strategy for an advertising campaign to promote a new type of automobile
- 6. Which of the following best describes the relation of the first paragraph to the passage as a whole?
 - (A) It makes a general observation to be exemplified.
 - (B) It outlines a process to be analyzed.
 - (C) It poses a question to be answered.
 - (D) It advances an argument to be disputed.
 - (E) It introduces conflicting arguments to be reconciled.

Australian researchers have discovered electroreceptors (sensory organs designed to respond to electrical fields) clustered at the tip of the spiny anteater's snout. The researchers made this discovery by exposing small areas of (5) the snout to extremely weak electrical fields and recording the transmission of resulting nervous activity to the brain. While it is true that tactile receptors, another kind of sensory organ on the anteater's snout, can also respond to electrical stimuli, such receptors do so only in response to 10) electrical field strengths about 1,000 times greater than

- those known to excite electroreceptors.

 Having discovered the electroreceptors, researchers are now investigating how anteaters utilize such a sophisticated sensory system. In one behavioral experiment, researchers
- (15) successfully trained an anteater to distinguish between two troughs of water, one with a weak electrical field and the other with none. Such evidence is consistent with researchers' hypothesis that anteaters use electroreceptors to detect electrical signals given off by prey; however,
- 20) researchers as yet have been unable to detect electrical signals emanating from termite mounds, where the favorite food of anteaters live. Still, researchers have observed anteaters breaking into a nest of ants at an oblique angle and quickly locating nesting chambers. This ability quickly

- (25) to locate unseen prey suggests, according to the researchers, that the anteaters were using their electroreceptors to locate the nesting chambers.
- 1. According to the passage, which of the following is a characteristic that distinguishes electroreceptors from tactile receptors?
 - (A) The manner in which electroreceptors respond to electrical stimuli
 - (B) The tendency of electroreceptors to be found in clusters
 - (C) The unusual locations in which electroreceptors are found in most species.
 - (D) The amount of electrical stimulation required to excite electroreceptors
 - (E) The amount of nervous activity transmitted to the brain by electroreceptors when they are excited
- 2. Which of the following can be inferred about the experiment described in the first paragraph?
 - (A) Researchers had difficulty verifying the existence of electroreceptors in the anteater because electroreceptors respond to such a narrow range of electrical field strengths.
 - (B) Researchers found that the level of nervous activity in the anteater's brain increased dramatically as the strength of the electrical stimulus was increased.
 - (C) Researchers found that some areas of the anteater's snout were not sensitive to a weak electrical stimulus.
 - (D) Researchers found that the anteater's tactile receptors were more easily excited by a strong electrical stimulus than were the electro receptors..
 - (E) Researchers tested small areas of the anteater's snout in order to ensure that only electroreceptors were responding to the stimulus.
- 3. The author of the passage most probably discusses the function of tactile receptors (lines 7-11) in order to
 - (A) eliminate and alternative explanation of anteaters' response to electrical stimuli

- (B) highlight a type of sensory organ that has a function identical to that of electroreceptors
- (C) point out a serious complication in the research on electroreceptors in anteaters.
- (D) suggest that tactile receptors assist electroreceptors in the detection of electrical signals.
- (E) introduce a factor that was not addressed in the research on electroreceptors in anteaters.
- 4. Which of the following can be inferred about anteaters from the behavioral experiment mentioned in the second paragraph?
- (A) They are unable to distinguish between stimuli detected by their electroreceptors and stimuli detected by their tactile receptors.
- (B) They are unable to distinguish between the electrical signals emanating from termite mounds and those emanating from ant nests.
- (C) They can be trained to recognize consistently the presence of a particular stimulus.
- (D) They react more readily to strong than to weak stimuli.
- (E) They are more efficient at detecting stimuli in a controlled environment than in a natural environment.
- 5. The passage suggests that the researchers mentioned in the second paragraph who observed anteaters break into a nest of ants would most likely agree with which of the following statements?
 - (A) The event they observed provides conclusive evidence that anteaters use their electroreceptors to locate unseen prey.
 - (B) The event they observed was atypical and may not reflect the usual hunting practices of anteaters.
 - (C) It is likely that the anteaters located the ants' nesting chambers without the assistance of electroreceptors.
 - (D) Anteaters possess a very simple sensory system for use in locating prey.
 - (E) The speed with which the anteaters located their prey is greater than what might be expected on the

basis of chance alone.

- 6. Which of the following, if true, would most strengthen the hypothesis mentioned in lines 17-19?
 - (A) Researchers are able to train anteaters to break into an underground chamber that is emitting a strong electrical signal.
 - (B) Researchers are able to detect a weak electrical signal emanating from the nesting chamber of an ant colony.
 - (C) Anteaters are observed taking increasingly longer amounts of time to locate the nesting chambers of ants.
 - (D) Anteaters are observed using various angles to break into nests of ants.
 - (E) Anteaters are observed using the same angle used with nests of ants to break into the nests of other types of prey.

Passage 51

When A. Philip Randolph assumed the leadership of the Brotherhood of Sleeping Car Porters, he began a ten-year battle to win recognition from the Pullman Company, the largest private employer of Black people in the United

- (5) States and the company that controlled the railroad industry's sleeping car and parlor service. In 1935 the Brotherhood became the first Black union recognized by a major corporation. Randolph's efforts in the battle helped transform the attitude of Black workers toward unions and
- (10) toward themselves as an identifiable group; eventually, Randolph helped to weaken organized labor's antagonism toward Black workers.

In the Pullman contest Randolph faced formidable obstacles. The first was Black workers' understandable

- (15) skepticism toward unions, which had historically barred Black workers from membership. An additional obstacle was the union that Pullman itself had formed, which weakened support among Black workers for an independent entity.
- (20) The Brotherhood possessed a number of advantages,

however, including Randolph's own tactical abilities.

1928 he took the bold step of threatening a strike against Pullman. Such a threat, on a national scale, under Black leadership, helped replace the stereotype of the Black (25)worker as servant with the image of the Black worker as wage earner. In addition, the porters' very isolation aided

- wage earner. In addition, the porters' very isolation aided the Brotherhood. Porters were scattered throughout the country, sleeping in dormitories in Black communities; their segregated life protected the union's internal
- (30) communications from interception. That the porters were a homogeneous group working for a single employer with single labor policy, thus sharing the same grievances from city to city, also strengthened the Brotherhood and encouraged racial identity and solidarity as well. But it was only
- (35) in the early 1930's that federal legislation prohibiting a company from maintaining its own unions with company money eventually allowed the Brotherhood to become recognized as the porters' representative.

Not content with this triumph, Randolph brought the

- (40) Brotherhood into the American Federation of Labor, where it became the equal of the Federation's 105 other unions. He reasoned that as a member union, the Brotherhood would be in a better position to exert pressure on member unions that practiced race restrictions. Such restrictions were eventually found unconstitutional in 1944.
- According to the passage, by 1935 the skepticism of Black workers toward unions was
 - (A) unchanged except among Black employees of railroad-related industries.
 - (B) reinforced by the actions of the Pullman Company's union
 - (C) mitigated by the efforts of Randolph
 - (D) weakened by the opening up of many unions to Black workers.
 - (E) largely alleviated because of the policies of the American Federation of Labor.
 - 2. In using the word "understandable" (line 14), the author most clearly conveys
 - (A) sympathy with attempts by the Brotherhood

- between 1925 and 1935 to establish an independent union.
- (B) concern that the obstacles faced by Randolph between 1925 and 1935 were indeed formidable
- (C) ambivalence about the significance of unions to most Black workers in the 1920's.
- (D) appreciation of the attitude of many Black workers in the 1920's toward unions.
- (E) regret at the historical attitude of unions toward Black workers.
- 3. The passage suggests which of the following about the response of porters to the Pullman Company's own union?
 - (A) Few porters ever joined this union.
 - (B) Some porters supported this union before 1935.
 - (C) Porters, more than other Pullman employees, enthusiastically supported this union.
 - (D) The porters' response was most positive after 1935.
 - (E) The porters' response was unaffected by the general skepticism of Black workers concerning unions.
- 4. The passage suggests that if the grievances of porters in one part of the United States had been different from those of porters in another part of the country, which of the following would have been the case?
 - (A) It would have been more difficult for the Pullman Company to have had a single labor policy.
 - (B) It would have been more difficult for the Brotherhood to control its channels of communication.
 - (C) It would have been more difficult for the Brotherhood to uild its membership.
 - (D) It would have been easier for the Pullman Company's union to attract membership.
 - (E) It would have been easier for the Brotherhood to threaten strikes.
- 5. The passage suggests that in the 1920's a company in the United States was able to
 - (A) use its own funds to set up a union

- (B) require its employees to join the company's own union

 "" Graph its employees
- (C) develop a single labor policy for all its employees with little employee dissent.
- (D) pressure its employees to contribute money to maintain the company's own union
- (E) use its resources to prevent the passage of federal legislation that would have facilitated the formation of independent unions.
- 6. The passage supplies information concerning which of the following matters related to Randolph?
 - (A) The steps he took to initiate the founding of the Brotherhood
 - (B) His motivation for bringing the Brotherhood into the American Federation of Labor
 - (C) The influence he had on the passage of legislation overturning race restrictions in 1944
 - (D) The influence he had on the passage of legislation to bar companies from financing their own unions
 - (E) The success he and the Brotherhood had in influencing the policies of the other unions in the American Federation of Labor

Seeking a competitive advantage, some professional service firms(for example, firms providing advertising, accounting, or health care services) have considered offering unconditional guarantees of satisfaction. Such guarantees specify what clients can expect and what the firm will do if it fails to fulfill these expectations.

Particularly with first-time clients, an unconditional

guarantee can be an effective marketing tool if the client is very cautious, the firm's fees are high, the (10) negative consequences of bad service are grave, or

business is difficult to obtain through referrals and word-of-mouth.

However, an unconditional guarantee can sometimes hinder marketing efforts. With its implication that failure is possible, the guarantee may, paradoxically, cause

- clients to doubt the service firm's ability to deliver the promised level of service. It may conflict with a firm's desire to appear sophisticated, or may even suggest that a firm is begging for business. In legal and health care
- (20) services, it may mislead clients by suggesting that lawsuits or medical procedures will have guaranteed outcomes. Indeed, professional service firms with outstandin reputations and performance to match have little to gain from offering unconditional guarantees. And any firm
- (25) that implements an unconditional guarantee without undertaking a commensurate commitment to quality of service is merely employing a potentially costly marketing gimmick.
- 1. The primary function of the passage as a whole is to
 - (A) account for the popularity of a practice
 - (B) evaluate the utility of a practice
 - (C) demonstrate how to institute a practice
 - (D) weigh the ethics of using a strategy
 - (E) explain the reasons for pursuing a strategy
- 2. All of the following are mentioned in the passage as circumstances in which professional service firms can benefit from offering an unconditional guarantee EXCEPT:
 - (A) The firm is having difficulty retaining its clients of long standing.
 - (B) The firm is having difficulty getting business through client recommendations.
 - (C) The firm charges substantial fees for its services.
 - (D) The adverse effects of poor performance by the firm are significant for the client.
 - (E) The client is reluctant to incur risk.
- 3. Which of the following is cited in the passage as a goal of some professional service firms in offering unconditional guarantees of satisfaction?
 - (A) A limit on the firm's liability
 - (B) Successful competition against other firms
 - (C) Ability to justify fee increases
 - (D) Attainment of an outstanding reputation in a field

- (E) Improvement in the quality of the firm's service
- 4. The passage's description of the issue raised by unconditional guarantees for health care or legal services most clearly implies that which of the following is true?
 - (A) The legal and medical professions have standards of practice that would be violated by attempts to fulfill such unconditional guarantees.
 - (B) The result of a lawsuit of medical procedure cannot necessarily be determined in advance by the professionals handling a client's case.
 - (C) The dignity of the legal and medical professions is undermined by any attempts at marketing of professional services, including unconditional guarantees.
 - (D) Clients whose lawsuits or medical procedures have unsatisfactory outcomes cannot be adequately compensated by financial settlements alone.
 - (E) Predicting the monetary cost of legal or health care services is more difficult than predicting the monetary cost of other types of professional services.
- 5. Which of the following hypothetical situations best exemplifies the potential problem noted in the second sentence of the second paragraph (lines 14-17)?
 - (A) A physician's unconditional guarantee of satisfaction encourages patients to sue for malpractice if they are unhappy with the treatment they receive.
 - (B) A lawyer's unconditional guarantee of satisfaction makes clients suspect that the lawyer needs to find new clients quickly to increase the firm's income.
 - (C) A business consultant's unconditional guarantee of satisfaction is undermined when the consultant fails to provide all of the services that are promised.
 - (D) An architect's unconditional guarantee of satisfaction makes clients wonder how often the architect's buildings fail to please clients.
 - (E) An accountant's unconditional guarantee of

satisfaction leads clients to believe that tax returns prepared by the accountant are certain to be accurate.

- 6. The passage most clearly implies which of the following about the professional service firms mentioned in line 22?
 - (A) They are unlikely to have offered unconditional guarantees of satisfaction in the past.
 - (B) They are usually profitable enough to be able to compensate clients according to the terms of an unconditional guarantee.
 - (C) They usually practice in fields in which the outcomes are predictable.
 - (D) Their fees are usually more affordable than those charged by other professional service firms.
 - (E) Their clients are usually already satisfied with the quality of service that is delivered.

Passage 53

Although genetic mutations in bacteria and viruses can lead to epidemics, some epidemics are caused by bacteria and viruses that have undergone no significant genetic change. In analyzing the latter, scientists have

- (5) discovered the importance of social and ecological factors to epidemics. Poliomyelitis, for example, emerged as an epidemic in the United States in the twentieth century; by then, modern sanitation was able to delay exposure to polio until adolescence or adulthood, at
- (10) which time polio infection produced paralysis. Previously, infection had occurred during infancy, when it typically provided lifelong immunity without paralysis. Thus, the hygiene that helped prevent typhoid epidemics indirectly fostered a paralytic polio epidemic. Another
- (15) example is Lyme disease, which is caused by bacteria that are transmitted by deer ticks. It occurred only sporadically during the late nineteenth century but has recently become prevalent in parts of the United States, largely due to an increase in the deer population that

- (20) occurred simultaneously with the growth of the suburand increased outdoor recreational activities in the deer's habitat. Similarly, an outbreak of dengue hemorrhagic fever became an epidemic in Asia in the 1950's because of ecological changes that caused *Aedes aegypti*,
- (25) the mosquito that transmits the dengue virus, to proliferate The stage is now set in the United States for a dengue epidemic because of the inadvertent introduction and wide dissemination of another mosquito, *Aedes albopictus*.
- 1. The passage suggests that a lack of modern sanitation would make which of the following most likely to occur?
 - (A) An outbreak of Lyme disease
 - (B) An outbreak of dengue hemorrhagic fever
 - (C) An epidemic of typhoid
 - (D) An epidemic of paralytic polio among infants
 - (E) An epidemic of paralytic polio among adolescents and adults
- 2. According to the passage, the outbreak of dengue hemorrhagic fever in the 1950's occurred for which of the following reasons?
 - (A) The mosquito *Aedes aegypti* was newly introduced into Asia.
 - (B) The mosquito *Aedes aegypti* became more numerous.
 - (C) The mosquito *Aedes albopictus* became infected with the dengue virus.
 - (D) Individuals who would normally acquire immunity to the dengue virus as infants were not infected until later in life.
 - (E) More people began to visit and inhabit areas in which mosquitos live and breed.
- 3. It can be inferred from the passage that Lyme disease has become prevalent in parts of the United States because of which of the following?
 - (A) The inadvertent introduction of Lyme disease bacteria to the United States

- (B) The inability of modern sanitation methods to eradicate Lyme disease bacteria
- (C) A genetic mutation in Lyme disease bacteria that makes them more virulent
- (D) The spread of Lyme disease bacteria from infected humans to noninfected humans
- (E) An increase in the number of humans who encounter deer ticks
- 4. Which of the following can most reasonably be concluded about the mosquito Aedes albopictus on the basis of information given in the passage?
 - (A) It is native to the United States.
 - (B) It can proliferate only in Asia.
 - (C) It transmits the dengue virus.
 - (D) It caused an epidemic of dengue hemorrhagic fever in the 1950's.
 - (E) It replaced Aedes aegypti in Asia when ecological changes altered Aedes aegypti's habitat.
- 5. Which of the following best describes the organization of the passage?
 - (A) A paradox is stated, discussed and left unresolved.
 - (B) Two opposing explanations are presented, argued, and reconciled.
 - (C) A theory is proposed and is then followed by descriptions of three experiments that support the theory.
 - (D) A generalization is stated and is then followed by three instances that support the generalization.
 - (E) An argument is described and is then followed by three counterexamples that refute the argument.
- 6. Which of the following, if true, would most strengthen the author's assertion about the cause of the Lyme disease outbreak in the United States?
 - (A) The deer population was smaller in the late
 - (B) Interest in outdoor recreation began to grow in the late nineteenth century.
 - (C) In recent years the suburbs have stopped growing.

- Student Bounty Com (D) Outdoor recreation enthusiasts routinely take measures to protect themselves against Lyme disease.
- (E) Scientists have not yet developed a vaccine that can prevent Lyme disease.

Two modes of argumentation have been used on behalf of women's emancipation in Western societies. Arguments in what could be called the "relational" feminist tradition maintain the doctrine of "equality in 5) difference," or equity as distinct for equality. They posit that biological distinctions between the sexes result in a necessary sexual division of labor in the family and throughout society and that women's procreative labor is currently undervalued by society, to (10) the disadvantage of women. By contrast, the individualist feminist tradition emphasizes individual human rights and celebrates women's quest for personal autonomy, while downplaying the importance of gender roles and minimizing discussion of childbearing and its attendant (15) responsibilities.

Before the late nineteenth century, these views coexisted within the feminist movement, often within the writings of the same individual. Between 1890 nd 1920, however, relational feminism, which had been the (20) dominant strain in feminist thought, and which still predominates among European and non-Western feminists, lost ground in England and the United States. Because the concept of individual rights was already well established in the Anglo-Saxon legal and political tradition, (25) individualist feminism came to predominate in Englishspeaking countries. At the same time, the goals of the two approaches began to seem increasingly irreconcilable. Individualist feminists began to advocate a totally gender-blind system with equal rights for all. Relational nineteenth century than in the mid-twentieth century, (30) feminists, while agreeing that equal educational and economic opportunities outside the home should be available for all women, continued to emphasize women's

special contributions to society as homemakers and

mothers; they demanded special treatment (35) including protective legislation for women workers, state-sponsored maternity benefits, and paid compensation for housework.

Relational arguments have a major pitfall: because they underline women's physiological and psychological (40) distinctiveness, they are often appropriated by political adversaries and used to endorse male privilege. But the individualist approach, by attacking gender roles, denying the significance of physiological difference, and condemning existing familial institutions as hopelessly

- (45) patriarchal, has often simply treated as irrelevant the family roles important to many women. If the individualist framework, with its claim for women's autonomy, could be harmonized with the family-oriented concerns of relational feminists, a more fruitful model for con-
- (50) temporary feminist politics could emerge.
 - 1. The author of the passage alludes to the wellestablished nature of the concept of individual rights in \(\beta \). It can be inferred from the passage that the individualist the Anglo-Saxon legal and political tradition in order to
 - (A) illustrate the influence of individualist feminist thought on more general intellectual trends in **English history**
 - (B) argue that feminism was already a part of the larger Anglo-Saxon intellectual tradition, even though this has often gone unnoticed by critics of women's emancipation.
 - (C) explain the decline in individualist thinking among feminists in non-English-speaking countries
 - (D) help account for an increasing shift toward individualist feminism among feminists in Englishspeaking countries.
 - (E) account for the philosophical differences between individualist and relational feminists in Englishspeaking countries
- 2. The passage suggests that the author of the passage believes which of the following?
 - (A) The predominance of individualist feminism in English-speaking countries is a historical

- Student Bounty.com phenomenon, the causes of which have not ye been investigated.
- (B) The individualist and relational feminist views are irreconcilable, given their theoretical differences concerning the foundations of society.
- (C) A consensus concerning the direction of future feminist politics will probably soon emerge, given the awareness among feminists of the need for cooperation among women.
- (D) Political adversaries of feminism often misuse arguments predicated on differences between the sexes to argue that the existing social system should be maintained.
- (E) Relational feminism provides the best theoretical framework for contemporary feminist politics, but individualist feminism could contribute much toward refining and strengthening modern feminist thought.
- feminist tradition denies the validity of which of the following causal statements?
 - (A) A division of labor in a social group can result in increased efficiency with regard to the performance of group tasks.
 - (B) A division of labor in a social group causes inequities in the distribution of opportunities and benefits among group members.
 - (C) A division of labor on the basis of gender in a social group is necessitated by the existence of sex-linked biological differences between male and female members of the group.
 - (D) Culturally determined distinctions based on gender in a social group foster the existence of differing attitudes and opinions among group members.
 - (E) Educational programs aimed at reducing inequalities based on gender among members of a social group can result in a sense of greater well-being for all members of the group.
- 4. According to the passage, relational feminists and

individualist feminists agree that

- (A) individual human rights take precedence over most other social claims
- (B) the gender-based division of labor in society should be eliminated
- (C) laws guaranteeing equal treatment for all citizens regardless of gender should be passed
- (D) a greater degree of social awareness concerning the importance of motherhood would be beneficial to society
- (E) the same educational and economic opportunities should be available to both sexes
- 5. According to the author, which of the following was true of feminist thought in Western societies before 1890?
 - (A) Individualist feminist arguments were not found in the thought or writing of non-English-speaking feminists.
 - (B) Individualist feminism was a strain in feminist thought, but another strain, relational feminism, predominated.
 - (C) Relational and individualist approaches were equally prevalent in feminist thought and writing.
 - (D) The predominant view among feminists held that the welfare of women was ultimately less important than the welfare of children.
 - (E) The predominant view among feminists held that the sexes should receive equal treatment under the law.
- 6. The author implies that which of the following was true of most feminist thinkers in England and the United States after 1920?
 - (A) They were less concerned with politics than with intellectual issues.
 - (B) They began to reach a broader audience and their programs began to be adopted by mainstream political parties.
 - (C) They called repeatedly for international cooperation among women's groups to achieve their goals.
 - (D) They moderated their initial criticism of the economic systems that characterized their societies.
 - (E) They did not attempt to unite the two different

Shindent Bounty.com feminist approaches in their thought.

Passage 55

Some observers have attributed the dramatic growth in temporary employment that occurred in the United states during the 1980's to increased participation in the workforce by certain groups, such as first-time or reentering workers, who supposedly prefer such arrangements. However, statistical analyses reveal that demographic changes in the workforce did not correlate with variations in the total number of temporary workers. Instead, these analyses suggest that factors affecting. (10) employers account for the rise in temporary employment. One factor is product demand: temporary employment is favored by employers who are adapting to fluctuating demand for products while at the same time seeking to reduce overall labor costs. Another (15) factor is labor's reduced bargaining strength, which allows employers more control over the terms of employment. Given the analyses, which reveal that growth in temporary employment now far exceeds the level explainable by recent workforce entry rates of groups said to prefer temporary jobs, firms should be 20) discouraged from creating excessive numbers of temporary positions. Government policymakers should consider mandating benefit coverage for temporary employees, promoting pay equity between temporary (25) and permanent workers, assisting labor unions in organizing temporary workers, and encouraging firms to assign temporary jobs primarily to employees who

1. The primary purpose of the passage is to

explicitly indicate that preference.

- (A) present the results of statistical analyses and propose further studies.
- (B) explain a recent development and predict its eventual consequences.
- (C) identify the reasons for a trend and recommend measures to address it.
- (D) outline several theories about a phenomenon and advocate one of them

- (E) describe the potential consequences of implementing a new policy and argue in favor of that policy.
- According to the passage, which of the following is true of the "factors affecting employers" that are mentioned in lines
 - 9-10?
 - (A) Most experts cite them as having initiated the growth in temporary employment that occurred during the 1980's.
 - (B) They may account for the increase in the total number of temporary workers during the 1980's.
 - (C) They were less important than demographic change in accounting for the increase of temporary employment during the 1980's.
 - (D) They included a sharp increase in the cost of labor during the 1980's.
 - (E) They are more difficult to account for than at other factors involved in the growth of temporary employment during the 1980's.
- 3. The passage suggests which of the following about the use of temporary employment by firms during the 1980's?
 - (A) It enabled firms to deal with fluctuating product demand far more efficiently than they before the 1980's.
 - (B) It increased as a result of increased participation in the workforce by certain demograp groups.
 - (C) It was discouraged by government-mandated policies.
 - (D) It was a response to preferences indicated by certain employees for more flexible working arrangements.
 - (E) It increased partly as a result of workers' reduced ability to control the terms of their employment.
- 4. The passage suggests which of the following about the workers who took temporary jobs during the 1980's?
 - (A) Their jobs frequently led to permanent positions within firms.
 - (B) They constituted a less demographically diverse group than has been suggested.

- (C) They were occasionally involved in actions organized by labor unions.
- (D) Their pay declined during the decade in comparison with the pay of permanent employees.
- (E) They did not necessarily prefer temporary employment to permanent employment.
- 5. The first sentence in the passage suggests that the observers mentioned in line 1 would be most likely to predict which of the following?
 - (A) That the number of new temporary positions would decline as fewer workers who preferred temporary employment entered the workforce.
 - (B) That the total number of temporary positions would increase as fewer workers were able to find permanent positions
 - (C) That employers would have less control over the terms of workers' employment as workers increased their bargaining strength.
 - (D) That more workers would be hired for temporary positions as product demand increased.
 - (E) That the number of workers taking temporary positions would increase as more workers in any given demographic group entered the workforce.
- 6. In the context of the passage, the word "excessive" (line 21) most closely corresponds to which of the following phrases?
 - (A) Far more than can be justified by worker preferences
 - (B) Far more than can be explained by fluctuations in product demand.
 - (C) Far more than can be beneficial to the success of the firms themselves.
 - (D) Far more than can be accounted for by an expanding national economy.
 - (E) Far more than can be attributed to increases in the total number of people in the workforce.
- 7. The passage mentions each of the following as an appropriate kind of governmental action EXCEPT

- (A) getting firms to offer temporary employment primarily to a certain group of people.
- (B) encouraging equitable pay for temporary and permanent employees
- (C) facilitating the organization of temporary workers by labor unions.
- (D) establishing guidelines on the proportion of temporary workers that firms should employ
- (E) ensuring that temporary workers obtain benefits from their employers.

Although numbers of animals in a given region may fluctuate from year to year, the fluctuations are often temporary and, over long periods, trivial. Scientists have advanced three theories of population control to (5) account for this relative constancy.

The first theory attributes a relatively constant population to periodic climatic catastrophes that decimate populations with such frequency as to prevent them from exceeding some particular limit. In the case of

- (10) small organisms with short life cycles, climatic changes need not be catastrophic: normal seasonal changes in photoperiod (daily amount of sunlight), for example, can govern population growth. This theory---the density-independent view---asserts that climatic factors
- (15) exert the same regulatory effect on population regardless of the number of individuals in a region.

A second theory argues that population growth is primarily density-dependent---that is, the rate of growth of a population in a region decreases as the (20) number of animals increases. The mechanisms that manage regulation may vary. For example, as numbers increase, the food supply would probably diminish, which would increase mortality. In addition, as Lotka and Volterra have shown, predators can find prey more

(25) easily in high-density populations. Other regulators include physiological control mechanisms: for example. Christian and Davis have demonstrated how the crowding that results from a rise in numbers may bring

about hormonal changes in the pituitary and adrendation glands that in turn may regulate population by lowering sexual activity and inhibiting sexual maturation. There is evidence that these effects may persist for three generations in the absence of the original provocation. One challenge for density-dependent theorists is to 35 develop models that would allow the precise prediction of the effects of crowding.

A third theory, proposed by Wynne-Edwards and termed "epideictic," argues that organisms have evolved a "code"in the form of social or epideictic behavior (40) displays, such as winter-roosting aggregations or group vocalizing; such codes provide organisms with information on population size in a region so that they can, if necessary, exercise reproductive restraint. However, wynne-Edwards' theory, linking animal social behavior (45) and population control, has been challenged, with some justification, by several studies.

- 1. The primary purpose of the passage is to
 - (A) argue against those scientists who maintain that animal populations tend to fluctuate
 - (B) compare and contrast the density-dependent and epideictic theories of population control
 - (C) provide example of some of the ways in which animals exercise reproductive restraint to control their own numbers
 - (D) suggests that theories of population control that concentrate on the social behavior of animals are more open to debate than are theories that do not
 - (E) summarize a number of scientific theories that attempt to explain why animal populations do not exceed certain limits
- 2. It can be inferred from the passage that proponents of the density-dependent theory of population control have not yet been able to
 - (A) use their theory to explain the population growth of organisms with short life cycles
 - (B) reproduce the results of the study of Christian and Davis

- (C) explain adequately why the numbers of a population can increase as the population's rate of growth decreases
- (D) make sufficiently accurate predictions about the effects of crowding
- (E) demonstrate how predator populations are themselves regulated
- 3. Which of the following, if true, would best support the density-dependent theory of population control as it is described in the passage?
 - (A) As the number of foxes in Minnesota decrease, the growth rate of this population of foxes begins of increase.
 - (B) As the number of woodpeckers in Vermont decreases, the growth rate of this population of woodpeckers also begins to decrease.
 - (C) As the number of prairie dogs in Oklahoma increases, the growth rate of this population of prairie dogs also begins to increase.
 - (D) After the number of beavers in Tennessee decreases, the number of predators of these beavers begins to increase.
 - (E) After the number of eagles in Montana decreases, the food supply of this population of eagles also begins to decrease.
- 4. According to the Wynne-Edwards theory as it is described in the passage, epideictic behavior displays serve the function of
 - (A) determining roosting aggregations
 - (B) locating food
 - (C) attracting predators
 - (D) regulating sexual activity
 - (E) triggering hormonal changes
- 5. The challenge posed to the Wynne-Edwards-theory by several studies is regarded by the author with
 - (A) complete indifference
 - (B) qualified acceptance
 - (C) skeptical amusement

- (D) perplexed astonishment
- (E) agitated dismay
- Student Bounty.com 6. Which of the following statements would provide the most of logical continuation of the final paragraph of the passage?
 - (A) Thus wynne-Edwards' theory raises serious questions about the constancy of animal population in a region.
 - (B) Because Wynne-Edwards' theory is able to explain more kinds of animal behavior than is the densitydependent theory, epideictic explanations of population regulation are now widely accepted.
 - (C) The results of one study, for instance, have suggested that group vocalizing is more often used to defend territory than to provide information about population density.
 - (D) Some of these studies have, in fact, worked out a systematic and complex code of social behavior that can regulate population size.
 - (E) One study, for example, has demonstrated that birds are more likely to use winter-roosting aggregations than group vocalizing in order to provide information on population size.

In recent years, teachers of introductory courses in Asian American studies have been facing a dilemma nonexistent a few decades ago, when hardly any texts in that field were available. Today, excellent antho-

- (5) logies and other introductory texts exist, and books on individual Asian American nationality groups and on general issues important for Asian Americans are published almost weekly. Even professors who are experts in the field find it difficult to decide which of
- (10) these to assign to students; nonexperts who teach in related areas and are looking for writings for and by Asian American to include in survey courses are in an even worse position.

A complicating factor has been the continuing lack (15) of specialized one-volume reference works on Asian Americans, such as biographical dictionaries or desktop encyclopedias. Such works would enable students taking Asian American studies courses (and professors in related fields) to look up basic information on Asian

- (20) American individuals, institutions, history, and culture without having to wade through mountains of primary source material. In addition, give such works, Asian American studies professors might feel more free to include more challenging Asian American material in
- (25) their introductory reading lists, since good reference works allow students to acquire on their own the background information necessary to interpret difficult or unfamiliar material.
- 1. The author of the passage is primarily concerned with doing which of the following?
 - (A) Recommending a methodology
 - (B) Describing a course of study
 - (C) Discussing a problem
 - (D) Evaluating a past course of action
 - (E) Responding to a criticism
- 2. The "dilemma" mentioned in line 2 can best be characterized as being caused by the necessity to make a choice when faced with a
 - (A) lack of acceptable alternatives
 - (B) lack of strict standards for evaluating alternatives
 - (C) preponderance of bad alternatives as compared to good
 - (D) multitude of different alternatives
 - (E) large number of alternatives that are nearly identical in content
- 3. The passage suggests that the factor mentioned in lines 14-17 complicates professors' attempts to construct introductory reading lists for courses in Asian American studies in which of the following ways?
 - (A) By making it difficult for professors to identify primary source material and to obtain standard

information on Asian American history and cult

- Student Bounty.com (B) By preventing professors from identifying exceller anthologies and introductory texts in the field that are both recent and understandable to students
- (C) By preventing professors from adequately evaluating the quality of the numerous texts currently being published in the field
- (D) Such courses were offered only at schools whose libraries were rich in primary sources.
- (E) By making it more necessary for professors to select readings for their courses that are not too challenging for students unfamiliar with Asian American history and culture
- (E) By making it more likely that the readings professors assign to students in their courses will be drawn solely from primary sources
- 4. The passage implies that which of the following was true of introductory courses in Asian American studies a few decades ago?
 - (A) The range of different textbooks that could be assigned for such courses was extremely limited.
 - (B) The texts assigned as readings in such courses were often not very challenging for students.
 - (C) Students often complained about the texts assigned to them in such courses.
 - (D) Such courses were the only means then available by which people in the United States could acquire knowledge of the field.
- 5. According to the passage, the existence of good onevolume reference works about Asian Americans could result in
 - (A) increased agreement among professors of Asian American studies regarding the quality of the sources available in their field
 - (B) an increase in the number of students signing up for introductory courses in Asian American studies
 - (C) increased accuracy in writings that concern Asian American history and culture

- (D) the use of introductory texts about Asian American history and culture in courses outside the field of Asian American studies
- (E) the inclusion of a wider range of Asian American material in introductory reading lists in Asian American studies

In an attempt to improve the overall performance of clerical workers, many companies have introduced computerized performance monitoring and control systems (CPMCS) that record and report a worker's computer-

- (5) driven activities. However, at least one study has shown that such monitoring may not be having the desired effect. In the study, researchers asked monitored clerical workers and their supervisors how assessments of productivity affected supervisors' ratings of workers' performance. In
- (10) contrast to unmonitored workers doing the same work, who without exception identified the most important element in their jobs as customer service, the monitored workers and their supervisors all responded that productivity was the critical factor in assigning ratings. This finding suggested
- (15) that there should have been a strong correlation between a worker received. However, measures of the relationship between overall rating and individual elements of performance clearly supported the conclusion that supervisors
- (20) gave considerable weight to criteria such as attendance.accuracy, and indications of customer satisfaction.

It is possible that productivity may be a "hygiene factor." that is, if it is too low, it will hurt the overall rating. But the evidence suggests that beyond the point at

- (25) which productivity becomes "good enough." higher productivity per se is unlikely to improve a rating.
- 1. According to the passage, before the final results of the study were known, which of the following seemed likely?
 - (A) That workers with the highest productivity would

- also be the most accurate
- Student Bounty.com (B) That workers who initially achieved high productivity ratings would continue to do so consistently
- (C) That the highest performance ratings would be achieved by workers with the highest productivity
- (D) That the most productive workers would be those whose supervisors claimed to value productivity
- (E) That supervisors who claimed to value productivity would place equal value on customer satisfaction
- 2. It can be inferred that the author of the passage discusses "unmonitored workers" (line 10) primarily in order to
 - (A) compare the ratings of these workers with the ratings of monitored workers
 - (B) provide an example of a case in which monitoring might be effective
 - (C) provide evidence of an inappropriate use of CPMCS
 - (D) emphasize the effect that CPMCS may have on workers' perceptions of their jobs
 - (E) illustrate the effect that CPMCS may have on workers' ratings
- monitored worker's productivity and the overall rating the 3. Which of the following, if true, would most clearly have supported the conclusion referred to in lines 19-21?
 - (A) Ratings of productivity correlated highly with ratings of both accuracy and attendance.
 - (B) Electronic monitoring greatly increased productivity.
 - (C) Most supervisors based overall ratings of performance on measures of productivity alone.
 - (D) Overall ratings of performance correlated more highly with measures of productivity than the researchers expected.
 - (E) Overall ratings of performance correlated more highly with measures of accuracy than with measures of productivity.
 - 4. According to the passage, a "hygiene factor" (lines 22-23) is an aspect of a worker's performance that
 - (A) has no effect on the rating of a worker's

performance

- (B) is so basic to performance that it is assumed to be adequate for all workers
- (C) is given less importance than it deserves in rating a worker's performance
- (D) if not likely to affect a worker's rating unless it is judged to be inadequate
- a worker's rating
- 5. The primary purpose of the passage is to
 - (A) explain the need for the introduction of an innovative strategy
 - (B) discuss a study of the use of a particular method
 - (C) recommend a course of action
 - (D) resolved a difference of opinion
 - (E) suggest an alternative approach

Passage 59

Schools expect textbooks to be a valuable source of information for students. My research suggests, however, that textbooks that address the place of Native Americans within he history of the United States distort history to suit

- (5) a particular cultural value system. In some textbooks, for example, settlers are pictured as more humane, complex, skillful, and wise than Native American. In essence, textbooks stereotype and deprecate the numerous Native American cultures while reinforcing the attitude that the
- (10) European conquest of the New World denotes the superiority of European cultures. Although textbooks evaluete Native American architecture, political systems, and homemaking. I contend that they do it from an ethnocentric,
- (15) European perspective without recognizing that other perspectives are possible.

One argument against my contention asserts that, by nature, textbooks are culturally biased and that I am simply underestimating children's ability to see through these

(20) biases. Some researchers even claim that by the time students are in high school, they know they cannot take textbooks literally. Yet substantial evidence exists to the

Student Bounty.com contrary. Two researchers, for example, have condu studies that suggest that children's attitudes about particula

- (25) culture are strongly influenced by the textbooks used in schools. Given this, an ongoing, careful review of how school textbooks depict Native American is certainly warranted.
- (E) is important primarily because of the effect it has on 1. Which of the following would most logically be the topic of the paragraph immediately following the passage?
 - (A) Specific ways to evaluate the biases of United States history textbooks
 - (B) The centrality of the teacher's role in United States history courses
 - (C) Nontraditional methods of teaching United States history
 - (D) The contributions of European immigrants to the development of the United States
 - (E) Ways in which parents influence children's political attitudes
 - 2. The primary purpose of the passage is to
 - (A) describe in detail one research study regarding the impact of history textbooks on children's attitudes and beliefs about certain cultures
 - (B) describe revisions that should be made to United States history textbooks
 - (C) discuss the difficulty of presenting an accurate history of the United States
 - (D) argue that textbooks used in schools stereotype Native Americans and influence children's attitudes
 - (E) summarize ways in which some textbooks give distorted pictures of the political systems developed by various Native American groups
 - 3. The author mentions two researchers' studies (lines22-
 - 25) most likely in order to
 - (A) suggest that children's political attitudes are formed primarily through textbooks
 - (B) counter the claim that children are able to see through stereotypes in textbooks

- (C) suggest that younger children tend to interpret the messages in textbooks more literally than do older children
- (D) demonstrate that textbooks carry political messages meant to influence their readers
- (E) prove that textbooks are not biased in terms of their political presentations
- 4. The author's attitude toward the content of the history textbooks discussed in the passage is best described as one of
 - (A) indifference
 - (B) hesitance
 - (C) neutrality
 - (D) amusement
 - (E) disapproval
- 5. It can be inferred from the passage that the researchers mentioned in line 19 would be most likely to agree with which of the following statements?
 - (A) Students form attitudes about cultures other than their own primarily inside the school environment.
 - (B) For the most part, seniors in high school know that textbooks can be biased.
 - (C) Textbooks play a crucial role in shaping the attitudes and beliefs of students.
 - (D) Elementary school students are as likely to recognize biases in textbooks as are high school students.
 - (E) Students are less likely to give credence to history textbooks than to mathematics textbooks.
- 6. The author implies tha5t which of the following will occur if textbooks are not carefully reviewed?
 - (A) Children will remain ignorant of the European settlers' conquest of the New World.
 - (B) Children will lose their ability to recognize biases in textbooks.
 - (C) Children will form negative stereotypes of Native Americans.
 - (D) Children will develop an understanding of

ethnocentrism.

Student Bounty Com (E) Children will stop taking textbooks seriously.

Passage 60

Until recently, scientists did not know of a close vertebrate analogue to the extreme form of altruism abserved in eusocial insects like ants and bees, whereby individuals cooperate, sometimes even sacrificing their own oppor-5) tunities to survive and reproduce, for the good of others.

However, such a vertebrate society may exist among underground colonies of the highly social rodent Heterocephalus glaber, the naked mole rat.

A naked mole rat colony, like a beehive, wasp's nest, or (10) termite mound, is ruled by its queen, or reproducing female. Other adult female mole rats neither ovulate nor breed. The queen of the largest member of the colony, and she maintains her breeding status through a mixture of behavioral and, presumably, chemical control. Queens have (15) been long-lived in captivity, and when they die or are removed from a colony one sees violent fighting for breeding status among the larger remaining females, leading to a takeover by a new queen.

Eusocial insect societies have rigid caste systems, each (20) insects's role being defined by its behavior, body shape, and physiology. In naked mole rat societies, on the other hand, differences in behavior are related primarily to reproductive status (reproduction being limited to the queen and a few males), body size, and perhaps age. Smaller nonbreeding (25) members, both male and female, seem to participate pri-

marily in gathering food, transporting nest material, and tunneling. Larger nonreaders are active in defending the colony and perhaps in removing dirt from the tunnels. Jarvis' work has suggested that differences in growth rates may influence the length of time that an individual performs (30) a task, regardless of its age.

Cooperative breeding has evolved many times in vertebrates, but unlike naked mole rats, most cooperatively breeding vertebrates (except the wild dog, Lycaon pictus)

(35) are dominated by a pair of breeders rather than by a single breeding female. The division of labor within social groups is less pronounced among other vertebrates than among naked mole rats, colony size is much smaller, and mating

by subordinate females may not be totally suppressed, (40) whereas in naked mole rat colonies subordinate females are not sexually active, and many never breed.

- 1. Which of the following most accurately states the main idea of the passage?
- (A) Naked mole rat colonies are the only known examples of cooperatively breeding vertebrate societies.
- (B) Naked mole rat colonies exhibit social organization based on a rigid caste system.
- (C) Behavior in naked mole rat colonies may well be a close vertebrate analogue to behavior in eusocial insect societies.
- (D) The mating habits of naked mole rats differ from those of any other vertebrate species.
- (E) The basis for the division of labor among naked mole rats is the same as that among eusocial insects.
- 2. The passage suggests that Jarvis' work has called into question which of the following explanatory variables for naked mole rat behavior?
 - (A) Size
 - (B) Age
 - (C) Reproductive status
 - (D) Rate of growth
 - (E) Previously exhibited behavior
- 3. It can be inferred from the passage that the performance of tasks in naked mole rat colonies differs from task performance in eusocial insect societies in which of the following ways?
 - (A) In naked mole rat colonies, all tasks ate performed cooperatively.
 - (B) In naked mole rat colonies, the performance of tasks is less rigidly determined by body shape.
 - (C) In naked mole rat colonies, breeding is limited to the largest animals.
 - (D) In eusocial insect societies, reproduction is limited to a single female.
 - (E) In eusocial insect societies, the distribution of

tasks is based on body size.

- Student Bounty.com 4. According to the passage, which of the following is a supposition rather than a fact concerning the queen in a naked mole rat colony?
 - (A) She is the largest member of the colony.
 - (B) She exerts chemical control over the colony.
 - (C) She mates with more than one male.
 - (D) She attains her status through aggression.
 - (E) She is the only breeding female.
- 5. The passage supports which of the following inferences about breeding among Lycaon pictus?
 - (A) The largest female in the social group does not maintain reproductive status by means of behavioral control.
 - (B) An individual's ability to breed is related primarily to its rate of growth.
 - (C) Breeding is the only task performed by the breeding
 - (D) Breeding in the social group is not cooperative.
 - (E) Breeding is not dominated by a single pair of dogs.

Passage 61

Coral reefs are one of the most fragile, biologically complex, and diverse marine ecosystem on Earth. This ecosystem is one of the fascinating paradoxes of the biosphere: how do clear, and thus nutrient-poor, waters sup-(5) port such prolific and productive communities? Part of the answer lies within the tissues of the corals themselves. Symbiotic cells of algae known as zooxanthellae carry out photosynthesis using the metabolic wastes of the coral thereby producing food for themselves, for their corals,

(10) hosts, and even for other members of the reef community. This symbiotic process allows organisms in the reef community to use sparse nutrient resources efficiently.

Unfortunately for coral reefs, however, a variety of human activities are causing worldwide degradation of (15) shallow marine habitats by adding nutrients to the (water.

Agriculture, slash-and-burn land clearing, sewage disposal

- and manufacturing that creates waste by-products all increase nutrient loads in these waters. Typical symptoms of reef decline are destabilized herbivore populations and
- (20) an increasing abundance of algae and filter-feeding animals. Declines in reef communities are consistent with observations that nutrient input is increasing in direct proportion to growing human populations, thereby threatening reef com-
- (25) munities sensitive to subtle changes in nutrient input to their waters.
- 1. The passage is primarily concerned with
 - (A) describing the effects of human activities on algae in coral reefs
 - (B) explaining how human activities are posing a threat to coral reef communities
 - (C) discussing the process by which coral reefs deteriorate in nutrient-poor waters
 - (D) explaining how coral reefs produce food for themselves
 - (E) describing the abundance of algae and filter-feeding animals in coral reef areas
- 2. The passage suggests which of the following about coral reef communities?
 - (A) Coral reef communities may actually be more likely to thrive in waters that are relatively low in nutrients.
 - (B) The nutrients on which coral reef communities thrive are only found in shallow waters.
 - (C) Human population growth has led to changing ocean temperatures, which threatens coral reef communities.
 - (D) The growth of coral reef communities tends to destabilize underwater herbivore populations.
 - (E) Coral reef communities are more complex and diverse than most ecosystems located on dry land.
- 3. The author refers to "filter-feeding animals" (line 20) in order to
 - (A) provide an example of a characteristic sign of reef deterioration

- (B) explain how reef communities acquire sustenant for survival
- (C) identify a factor that helps herbivore populations thrive
- (D) indicate a cause of decreasing nutrient input in waters that reefs inhabit
- (E) identify members of coral reef communities that rely on coral reefs for nutrients
- 4. According to the passage, which of the following is a factor that is threatening the survival of coral reef communities?
 - (A) The waters they inhabit contain few nutrient resources.
 - (B) A decline in nutrient input is disrupting their symbiotic relationship with zooxanthellae
 - (C) The degraded waters of their marine habitats have reduced their ability to carry out photosynthesis
 - (D) They are too biologically complex to survive in habitats with minimal nutrient input.
 - (E) Waste by-products result in an increase in nutrient input to reef communities.
- 5. It can be inferred from the passage that the author describes coral reef communities as paradoxical most likely for which of the following reasons?
 - (A) They are thriving even though human activities have depleted the nutrients in their environment.
 - (B) They are able to survive in spite of an overabundance of algae inhabiting their waters.
 - (C) They are able to survive in an environment with limited food resources.
 - (D) Their metabolic wastes contribute to the degradation of the waters that they inhabit.
 - (E) They are declining even when the water surrounding them remains clear.

Two divergent definitions have dominated sociologists' discussions of the nature of ethnicity. The first emphasizes

the primordial and unchanging character of ethnicity. In this view, people have an essential need for belonging that

- (5) is satisfied by membership in groups based on shared ancestry and culture. A different conception of ethnicity de-emphasizes the cultural component and defines ethnic groups as interest groups. In this view, ethnicity serves as a way of mobilizing a certain population behind issues
- (10) relating to its economic position. While both of these definitions are useful, neither fully captures the dynamic and changing aspects of ethnicity in the United States. Rather, ethnicity is more satisfactorily conceived of as a process in which preexisting communal bonds and common
- (15) cultural attributes are adapted for instrumental purposes according to changing real-life situations.

One example of this process is the rise of participation by Native American people in the broader United States political system since the Civil Rights movement of the

- (20)1960's. Besides leading Native Americans to participate more actively in politics (the number of Native American legislative officeholders more than doubled), this movement also evoked increased interest in tribal history and traditional culture. Cultural and instrumental components of
- (25) ethnicity are not mutually exclusive, but rather reinforce one another.

The Civil Rights movement also brought changes in the uses to which ethnicity was put by Mexican American people. In the 1960's, Mexican Americans formed

- (30) community-based political groups that emphasized ancestral heritage as a way of mobilizing constituents. Such emerging issues as immigration and voting rights gave Mexican American advocacy groups the means by which to promote ethnic solidarity. Like European ethnic groups in the
- (35) nineteenth-century United States, late-twentieth-century Mexican American leaders combined ethnic with contemporary civic symbols. In 1968 Henry Censors, then mayor of San Antonio, Texas, cited Mexican leader Benito Juarez as a model for Mexican Americans in their fight for con-
- celebrate Cinco de Mayo as fervently as many Irish American people embrace St. Patrick's Day (both are major holidays in the countries of origin), with both holidays

StudentBounty.com having been reinvented in the context of the United and linked to ideals, symbols, and heroes of the United States.

- 1. Which of the following best states the main idea of the passage?
 - (A) In their definitions of the nature of ethnicity, sociologists have underestimated the power of the primordial human need to belong.
 - (B) Ethnicity is best defined as a dynamic process that combines cultural components with shared political and economic interests.
 - (C) In the United States in the twentieth century, ethnic groups have begun to organize in order to further their political and economic interests.
 - (D) Ethnicity in the United States has been significantly changed by the Civil Rights movement.
 - (E) The two definitions of ethnicity that have dominated sociologists discussions are incompatible and should be replaced by an entirely new approach.
- 2. Which is the following statements about the first two definitions of ethnicity discussed in the first paragraph is supported by the passage?
 - (A) One is supported primarily by sociologists, and the other is favored by members of ethnic groups.
 - (B) One emphasizes the political aspects of ethnicity, and the other focuses on the economic aspects.
 - (C) One is the result of analysis of United States populations, and the other is the result of analysis

European populations.

- (D) One focuses more on the ancestral components of ethnicity than does the other.
- (E) One focuses more on immigrant groups than does the other.
- (40) temporary civil rights. And every year, Mexican Americans 3. The author of the passage refers to Native American people in the second paragraph in order to provide an example of
 - (A) the ability of membership in groups based on

of

- shared ancestry and culture to satisfy an essential human need.
- (B) how ethnic feelings have both motivated and been strengthened by political activity
- (C) how the Civil Rights movement can help promote solidarity among United States ethnic groups
- (D) how participation in the political system has helped to improve a group's economic situation
- (E) the benefits gained from renewed study of ethnic history and culture
- 4. The passage supports which of the following statements about the Mexican American co+munity?
 - (A) In the 1960's the Mexican American community began to incorporate the customs of another ethnic group in the United States into the observation of its own ethnic holidays.
 - (B) In the 1960's Mexican American community groups promoted ethnic solidarity primarily in order to effect economic change
 - (C) In the 1960's leader of the Mexican American community concentrated their efforts on promoting a renaissance of ethnic history and culture
 - (D) In the 1960's members of the Mexican American community were becoming increasingly concerned about the issue of voting rights.
 - (E) In the 1960's the Mexican American community had greater success in mobilizing constituents than did other ethnic groups in the United States.
- 5. Which of the following types of ethnic cultural expression is discussed in the passage?
 - (A) The retelling of traditional narratives
 - (B) The wearing of traditional clothing
 - (C) The playing of traditional music
 - (D) The celebration of traditional holidays
 - (E) The preparation of traditional cuisine
- 6. Information in the passage supports which of the following statements about many European ethnic groups in the nineteenth-century United States?

- (A) They emphasized economic interests as a way of mobilizing constituents behind certain issues.
- (B) They conceived of their own ethnicity as being primordial in nature.
- (C) They created cultural traditions that fused United States symbols with those of their countries of origin.
- (D) They de-emphasized the cultural components of their communities in favor of political interests.
- (E) They organized formal community groups designed to promote a renaissance of ethnic history and culture.
- 7. The passage suggests that in 1968 Henry Cisneros most likely believed that
 - (A) many Mexican American would respond positively to the example of Benito Juarez.
 - (B) many Mexican American were insufficiently educated in Mexican history
 - (C) the fight for civil fights in the United States had many strong parallels in both Mexican and rish history.
 - (D) the quickest way of organizing community-based groups was to emulate the tactics of Benito Juarez
 - (E) Mexican Americans should emulate the strategies of Native American political leaders.

The fact that superior service can generate a competitive advantage for a company does not mean that every attempt at improving service will create such an advantage. Investments in service, like those in production and distribution,

- (5) must be balanced against other types of investments on the basis of direct, tangible benefits such as cost reduction and increased revenues. If a company is already effectively on a par with its competitors because it provides service that avoids a damaging reputation and keeps customers from
- (10) leaving at an unacceptable rate, then investment in higher service levels may be wasted, since service is a deciding

factor for customers only in extreme situations.

This truth was not apparent to managers of one regional bank, which failed to improve its competitive position

- (15) despite its investment in reducing the time a customer had to wait for a teller. The bank managers did not recognize the level of customer inertia in the consumer banking industry that arises from the inconvenience of switching banks. Nor did they analyze their service improvement to
- (20) determine whether it would attract new customers by producing a new standard of service that would excite cus-4. The passage suggests that bank managers failed to tomers or by proving difficult for competitors to copy. The only merit of the improvement was that it could easily be described to customers.
- 1. The primary purpose of the passage is to
 - (A) contrast possible outcomes of a type of business investment
 - (B) suggest more careful evaluation of a type of business investment
 - (C) illustrate various ways in which a type of business investment could fail to enhance revenues
 - (D) trace the general problems of a company to a certain type of business investment
 - (E) criticize the way in which managers tend to analyze the costs and benefits of business investments
- 2. According to the passage, investments in service are comparable to investments in production and distribution in terms of the
 - (A) tangibility of the benefits that they tend to confer
 - (B) increased revenues that they ultimately produce
 - (C) basis on which they need to be weighed
 - (D) insufficient analysis that managers devote to them
 - (E) degree of competitive advantage that they are likely to provide
- 3. The passage suggests which of the following about service provided by the regional bank prior to its investment in enhancing that service?
 - (A) It enabled the bank to retain customers at an acceptable rate

- Shindent Bounty Com (B) It threatened to weaken the bank's competitive position with respect to other regional banks
- (C) It had already been improved after having caused damage to the bank's reputation in the past.
- (D) It was slightly superior to that of the bank's regional competitors.
- (E) It needed to be improved to attain parity with the service provided by competing banks.
- consider whether or not the service improvement mentioned in line 19
 - (A) was too complicated to be easily described to prospective customers
 - (B) made a measurable change in the experiences of customers in the bank's offices
 - (C) could be sustained if the number of customers increased significantly
 - (D) was an innovation that competing banks could have imitated
 - (E) was adequate to bring the bank's general level of service to a level that was comparable with that of its competitors
- 5. The discussion of the regional bank (line 13-24) serves which of the following functions within the passage as a whole?
 - (A) It describes an exceptional case in which investment in service actually failed to produce a competitive advantage.
 - (B) It illustrates the pitfalls of choosing to invest in service at a time when investment is needed more urgently in another area.
 - (C) It demonstrates the kind of analysis that managers apply when they choose one kind of service investment over another
 - (D) It supports the argument that investments in certain aspects of service are more advantageous than investments in other aspects of service.
 - (E) It provides an example of the point about investment in service made in the first paragraph.

Student Bounty Com

- 6. The author uses the word "only" in line 23 most likely in order to
 - (A) highlight the oddity of the service improvement
 - (B) emphasize the relatively low value of the investment in service improvement
 - (C) distinguish the primary attribute of the service improvement from secondary attributes
 - (D) single out a certain merit of the service improvement from other merits
 - (E) point out the limited duration of the actual service improvement

《新东方 GMAT 阅读精解》答案

1.BECACBEC

3.EBAEDABB

33.BABDBCB

35.BECDEADE

37.DEADCBAA 39.CDCEBE

41.BCEDACEA

43.BCECECCA

2.1 IDCEDCDCD
4.DBCBABA
6.ADBAECDBA
8.ACADEAEDC
10.DDDADEBBA
12.ADCCCBBED
14.EEDEABCDD
16.ACBBCDB
18.DDBCBCEAB
20.CADAACB
22.BDEDDBCA
24.BDAEECA
26.ECEEBDDA
28.BBDDDCD
30.BADBACED
32.BCCCABBD
34.CDDBACC
36.BACAAEBD
38.EAECBCDAA
40.ABDBCCDE
42.CBEAAC
44.BACBDACD

2.ABCEBCBCD

45.DAEBCEA

47.CBACEED

- 117 -

SHILDENH BOUNTS, COM

46.	\sim	\mathbf{n}		~ .	Α.	\sim	$\overline{}$	
		ĸ.	-		•			1

48.CDEB

49.DEDDCA

51.CDBCAB

53.CBECDA

55.CBEEEAA

57.CDDAE

59.ADBEBC

61.BAAEC

63.BCADEB

50.DCACEB

52.BABBDE

54.DDCEBE

56.EDADBC

58.CDEDB

60.CBBEAC

62.BDBDDCA

标X表示该题不计分。