Section - I

Direction for questions 1 to 5: In these questions, you have a set of four sentences consisting of a blank each that is followed by four words that are marked as alternatives. You have to mark the alternative wherein the word can fill in the maximum number of blanks in the sentences.

1.	A. Anna is Tom.	about the p	problems she	is facing with
	B. They had	a/an discu	ssion about th	ne future.
	C. She has a	/an, trustir	ng nature.	
	D. I cannot un reports.	derstand the _	_language of	the inspector's
	a. frankly	b. candid	c. opaque	d. open
2	B. Out on the C. There are D. The docto the deliver	bay the morn lots of books or worked busil	ing is rammed with go between the	with the client ideas. e lights of d. bright
3.	B.The govern work perm C. Roberta fe	its for his forei	erately his gn staff. ry.	s efforts to gain
	c. frustrated		d. frustrate	

4.	 A. He was suffering from and shock but his condition was said to be stable. B. All the candidates have been getting an enormous amount of on television and press. C. The whole system has been based on divine in the scriptures. D. The often last till dawn. 			
	a. openness b. revelation			
5.	 A. All Italy's political parties have accepted that it is tin to the system. B. Ricardo Bofill, the Catalan architect, has designed to airport. 			
	C. She lives in a large,	house.		
		ng the old navy uniform with		
	a crisp blue and white co	otton outfit. b. renovated		
	c. revamp	d. Both (a) and (b)		
Direction for questions 6 to 15: In each question a blank is left. Choose the correct alternative to fill in the blank.				
6.	Education is the jewel of a. crowning b. finishing			
7.	Discipline is the of achi	evement.		
	a. basic	b. bedrock		
	c. predecessor	d. None of these		
8.	which develops during the first weeks of life.			
	a. basic c. dreadful	b. mechanical d. innate		
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9.	One who is educated, is understood to have the learning of good and bad.				
	a. motivated b. stipulated	c. imbibed d. instigated			
10.	 In days such as these, with scams and all sizes, education's moorings with ethics issue. 				
	a. populated	b. fraught			
	c. completed	d. None of these			
11.	Discipline on the other hand of discrete efforts to yie	d, would be critical to achieve eld a common goal.			
	a. organise b. saving	c. creation d. alignment			
12.	There are no prizes until one keeps to the task with enduring				
	a. trepidation	b. effort			
	c. perseverance	d. meaning			
13.	Only a disciplined society of a. exhibit c. Both (a) and (b)	can such perseverance. b. squander d. None of these			
14.		elf to bookish concepts alone, reason in the minds of the			
	a. restrict b. forward	c. offer d. prevent			
15.	An educated man's is he even under adverse situation	ow he carries himself steadily ons.			
	a. symbol	b. problem			
	c. hallmark	d. None of these			
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Direction for questions 16 to 25: In each of the questions, one complete pair of words or phrases and one term of another pair are given. Complete the second pair by choosing the correct term from the given choices.

16.	Blacksmith : Hammer :: Pilot :			
	a. Steering	b. Joystick	c. Scalpel	d. Dosage
17.	Memorandur	m : Memorand	a :: Bacillus: _	
	a. Bacchus	b. Bacteria	c. Bacii	d. Bacilli
18.	Star : Cluster	r :: Tree :		
	a. Orbit	b. Clump	c. Plant	d. Trees
19.	Duplicate : G	enuine : Refle	ction :	
	a. Object	b. Mystify	c. Elucidate	d. Magnify
20.	Herpetology	: Reptiles : : D	ermatology:_	3.0
	a. Mummies	b. Dirt	c. Hair	d. Skin
21.	Bird : Snare	:: Fish :		
	a. Seine	b. Fins	c. Swim	d. Gills
22.	Microscope :	Small :: Teles	cope :	
	a. Distant	b. Lens	c. Tube	d. Sun
23.	Ebb : Tide ::	Subside :		
	a. Desert		b. Storm	
	c. Road		d. None of the	ese

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24. Horse: Elegant:: Mischevious: ____
a. Hippopotamus
b. Giraffe
c. Monkey
d. Tiger
25. Car: Boot:: Ship: ____
a. Container b. Tank
c. Cargo
d. Hold

Direction for questions 26 to 30: Read the passage carefully and indicate the meaning of the words underlined by choosing one of the four alternatives given.

Aware that the next ten years will be a <u>watershed</u> in the history of the prison system, Criminon engaged in a programme to handle and <u>reform</u> the future of crime: juvenile offenders. The Criminon programme was tested, then revised and tested again inside the Los Angeles Central Juvenile Hall, unit K/L. All of the participants of the programme were accused of murder in the first degree, and all were gang members.

The results were unprecedented.

It all started in the Spring of 1994. Joan Lonstein, the President of Criminon for the Western United States, gathered together a handful of her best supervisors and started delivering the full regimen of the Criminon programme to a group of 25 young offenders.

26. Watershed

a. Radical changeb. Upheavalc. Uneasinessd. Makeover

- 27. Reform
 - a. Formulation
- b. Tampering
- c. Manipulation
- d. Amendment
- 28. Unprecedented
 - a. Former President
- b. Preceding
- c. Unparalleled
- d. Uncontrollable
- 29. Regimen
 - a. Order
- b. Record

c. List

- d. None of these
- Offenders 30.
 - a. Cult members
- b. Accused
- c. Students
- d. Comrade

Direction for questions 31 to 40: In each question a word is given. Choose the word with the opposite meaning.

- 31. **COWARD**
 - a. Forthcoming
- b. Foolish
- c. Valiant
- d. Covert
- **VULGAR** 32.
 - a. Athletic
- b. Sober
- c. Aristocratic
- d. Incredible
- 33. **ENDORSE**
 - a. Clear
- b. Support
- c. Refute
- d. None of these

ADORE 34. a. Detest d. Unwilling b. Worship c. Oppose 35. **SUBTLE** a. Stupidity b. Clever c. Dexterous d. Blunt 36. **IRRITATE** a. Reiterate b. Charm c. React d. Pretty 37. **PERENNIAL** a. Temporal b. Eternal c. Potent d. Long-lasting 38. LAVISH a. Extravagant b. Rich c. Miserly d. Poverty 39. HOSTILE a. Friendly b. Nervous c. Malicious d. Enmity **BETRAYAL** 40. b. Forsake a. Ditch c. Loyalty d. Remembrance

Direction for questions 41 to 50: Read the following passage carefully and indicate the meaning of the words or phrases underlined by choosing the correct alternative.

Just a few weeks ago, Ketan Parekh was threatening to sue the Bank of India for <u>defamation</u>, because it complained about the bouncing of Rs 1.3-billion pay orders issued to the broker by the Madhavpura <u>Mercantile</u> Co-operative Bank. He seemed to suggest there is nothing more that the authorities would be able to pin against him.

Yet, in the last couple of weeks, investigations by the Central Bureau of Investigation and the Securities and Exchange Board of India reveal that the sheer magnitude of money moved around by Parekh or available to him for his market manipulation was a staggering Rs. 64 billion.

A couple of weeks ago, the CBI called a press conference to announce it had <u>unearthed</u> a Swiss bank account in which Parekh was listed as the beneficiary. The Bureau claimed there was \$80 million (Rs. 3.4 billion) in the account, which has since been <u>frozen</u>. In the past, CBI announcements were usually followed up with a guick arrest, this time it has gone silent.

The Securities and Exchange Board of India's preliminary investigation in May revealed that Rs. 29 billion were transferred out of the country through five Overseas Corporate Bodies between March 1999 to March 2001. These OCBs had together invested just Rs. 7.77 billion in the Indian market but remitted a whopping Rs. 36.77 billion out of the country. This direct flight of capital occurred through European Investments, Far East Investments, Wakefield Holding, Brentfield Holdings and Kensington Investment. Three of these companies have a paid up capital of just \$10.

SEBI says the pattern of investments and transactions through these accounts shows a clear misuse of the OCB/Foreign Institutional Investor route. They seem to be used as a channel to repatriate profits earned through stock price manipulation. Many of these OCBs were sub-accounts of Credit Suisse First Boston whose brokerage operations have been suspended. But there were other FIIs too. Strangely, SEBI has not yet placed any restrictions on them so far.

All it has done is to request the Mauritius Offshore Business Activities Authority to give details in respect of actual beneficiaries, source and utilization of funds of OCBs and subaccounts mentioned in its preliminary report.

In answer to a Joint Parliamentary Committee query, SEBI now admits to have unearthed six more OCBs, where there is <u>evidence</u> that Parekh's companies may have used them for 'cornering and parking of stocks.' Dossier Stock Inc, Greenfield Investments Ltd, AOM Investments Ltd, Symphony Holdings Ltd, Almel Investments (Mauritius) Ltd, and Delgrada Ltd.

41. Defamation

a. Deride
b. Award
c. Scandalise
d. Joyous

42. Mercantile

a. Brokerage
b. Guild

c. Commercial d. None of these

43. Uneartheda. Forfeitb. Discoverc. Digd. Worldly

44. Evidence
a. Source b. Standard c. Proof d. Blame

45. Frozen
a. Stalled b. Closed c. Icy d. Sticky

46. Remitted
a. Despatch b. Invite c. Return d. Retard

47. Whoppinga. Hoppingb. Minisculec. Mildd. None of these

- 48. 'Flight of capital'
 - a. Siphoning of funds
 - b. Transfer of financial interests
 - c. Movement of bank accounts
 - d. None of these
- 49. Repatriate
 - a. Penalise
- b. Award
- c. Refund
- d. Unbecoming
- 50. FII stands for
 - a. Financial Institutional Investors
 - b. Foreign Institutional Investors
 - c. Fluid Investment Institutions
 - d. Foreign Investment and Interests

Direction for questions 51 to 60: Read the following passages and answer the questions that follow.

Passage - 1

Terrorism of a particular type is on the rise, and it is the terrorism of the old. It is the rise of fanaticism and fundamentalism. It was remanifesting itself before the end of the Cold War, and festered after the fall of the Soviet empire. The escalation of the war between Israel with the Arabic countries and the war in Afghanistan during the '80 had have produced more and new generation of fanatics and fundamentalists. The Talibans or Islamic religious students are radicalized by extremist clerics who advocate violence as the answers for their conflicts with the non-Islamic world. It is the goal of these terrorists that

measures the degree of their fanaticism. As seemed around the world like in USA, East and Western Europe, Middle East, South and South-east Asia, these terrorists want to undermine the government and freedom of non-Islamic countries by using their liberty and freedom as cover for their activities. They want the revival of old Islamic glory when Islam spread all over the known world and as the dominating factor in world economy and politic. They seemed to think that they are the victims and not the perpetrators according to their clerics. The economic destabilization and removal of non-Islamic governments is one of their main goal.

51. What according to the passage is the 'terrorism of the old'?

a. Fanaticism

b. Fundamentalism

c. Intolerance

d. Both (a) and (b)

- 52. What according to the passage led to the decay of terrorism after the Cold War?
 - a. Fall of the Berlin Wall
 - b. Gulf War
 - c. Fall of the Soviet Empire
 - d. None of these
- 53. The escalation of tension between Israel and Arab countries has
 - a. led to a rise in terrorist attacks
 - b. led to birth of new terrorist outfits
 - c. propagated a new generation of fundamentalism
 - d. None of these

- 54. What according to the passage, does 'Taliban' stand for?
 - a. Terrorist outfit
 - b. Arab mercenaries
 - c. Students of Islamic religion
 - d. Islamic clergymen
- 55. This passage seems to be
 - a. from a newspaper
 - b. from an economics journal
 - c. a figment of the writer's imagination
 - d. part of a government white paper.

Passage - 2

Rule utilitarianism is a form of utilitarianism, which maintains that a behavioural code or rule is morally right if the consequences of adopting that rule are more favourable than unfavourable to everyone. It is contrasted with act utilitarianism, which maintains that the morality of each action is to be determined in relation to the favourable or unfavourable consequences that emerge from that action. The principle of rule-utilitarianism is a litmus test only for the morality of moral rules, such as 'stealing is wrong' and not a test for particular actions. Adopting a rule against theft clearly has more favourable consequences than unfavourable consequences for everyone. The same is true for moral rules against lying or murdering. Rule-utilitarianism, then, offers a three-tiered method for judging conduct. A particular action, such as stealing my neighbour's lawn furniture, is judged wrong since it violates a moral rule against theft. In turn, the rule against theft is morally binding because adopting this rule produces favourable consequences for everyone.

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Rule-utilitarianism attempts to avoid some of the problems with act-utilitarianism. For example, with act-utilitarianism it seems that we should have to give up television for charity work if it was determined that each of our leisure moments would yield greater social benefit if we did charity work instead. With ruleutilitarianism, though, a rule prohibiting leisure time is not socially beneficial; hence we are not required to abandon leisure for charity. Similarly, under rule-utilitarianism, enslaving someone would be morally wrong if it was determined that a general rule prohibiting slavery was more socially beneficial. Even if a particular act of enslaving someone produced more benefit for the slave owners than disbenefit for the slave himself, the act would still be wrong since it would violate the rule prohibiting slavery. But by side-stepping the problems of act-utilitarianism, rule-utilitarianism creates a new problem: it is conceivable that, on balance, a rule permitting slavery actually produces more benefit for society.

- 56. According to the passage, rule utilitarianism is
 - a. an extension of utilitarianism.
 - b. an extension of act utilitarianism.
 - c. an old redundant concept.
 - d. None of these
- 57. According to rule utilitarianism, a code of conduct is valid if
 - a. it delivers good for select number of people.
 - b. it delivers good for all important people.
 - c. it delivers good for the maximum number of people.
 - d. None of these

58.	The basic difference between rule and act utilitarianism is that the former talks about rules and the latter about a. actions b. the necessity of actions c. the futility of actions d. the consequences of actions			
59.	According to the passage, with what analogy? a. Test of faith c. Litmus test	rule utilitarianism is explained b. Test of trust d. None of these		
60.	What does rule utilitarianisr a. Book of rules c. List of penalties	n provide for judging conduct? b. Three-tiered approach d. None of these		
Direction for questions 61 to 70: Fill in the blanks left in each question by choosing the correct alternative from among the given four choices.				
61.	long, France has been the world in more than one a. Quite b. Very	a country which has charmed way. c. Since d. Never		
62.	Be it Dom Perignon's charall. a. had enthralled c. has enthralled	mpagne or art, France us b. enthralled d. enthrall		
63.	Paris has been the seat of French revolution Ren a. to b. to the	of many upheavals, from the aissance. c. and the d. of the		
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64.	64. To some, Paris up images of the guillotin others the Eiffel Tower. a. projects b. shows		
	c. conjures	d. None of these	
65.	There are others still who of the promenades of Champs a. to walk c. walk	could wait for a lifetime s De Elysee. b. walking d. None of these	
66.	I have a friend, who would swear that nowhere else have seen such beautiful women as in Paris. He is a sail and more shores than I have heard about, so I woutake his verdict.		
	a. was seeing c. has seen	b. had seen d. saw	
67.	France is a brand. Its wines, café's are the world's a. objective b. sin	perfumes, fashion and even c. regret d. delight	
68.	France has been a tourist _ Europe is your domain. a. haunt c. destination	for long and a must see if b. den d. depression	
69.	Such has been Paris, that kept it away from way. a. destiny's b. fate's	even Hitler's war machine c. fortune's d. harm's	

	iodine. a. is giving	b. had given	c. gives	d. gave
	tion for quest re given four w oup.			•
71.	a. Hiatus c. Interval		b. Gape d. Interruption	
72.	a. Endless	b. Incessant	c. Forever	d. Finite
73.	a. Bore	b. Busybody	c. gossip	d. tirade
74.	a. Idiot	b. Maroon	c. Imbecile	d. Moron
75.	a. Unimagina c. Dull	tive	b. Unoriginal d. Ingenious	
76.	a. Suggest	b. Defer	c. Hint	d. Imply
77.	a. Dignified	b. Serious	c. Grim	d. Flippant
78.	a. Podium	b. Pedal	c. Pedestal	d. Quadriped
79.	a. Speedome c. Centipede	ter	b. Tachometer	er
80.	a. Insanity c. Verbosity		b. Inactivity d. Abnormalit	у

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It is soluble in water and ____ an intense blue colour with

70.

Section - II

Direction for questions 81 to 90: Answer the questions based on the following information.

f(x) = 2x - 1, where x is an integer. The nth forward difference operator of the function f(x) is

 $\Delta^n f(x) = \Delta^{n-1} f(x+1) - 2\Delta^{n-1} f(x)$ and the nth backward difference operator of the function f(x) is

 $\nabla^n f(x) = \nabla^{n-1} \ f(x) - 2 \nabla^{n-1} \ f(x-1) \,,$ where n is a positive integer.

- 81. The value of $\Delta^2 f(17) \nabla^2 f(13)$ is
 - a. 5
- b. 10
- c. 12
- d. 29
- 82. The value of $\Delta^3 f(23)$ is
 - a. 65
- b. –91
- c. -121
- d. -39
- 83. The value of $\nabla^3 f(51)$ is
 - a. 97
- b. -89
- c. -71
- d. None of these
- 84. The value of $\Delta^3 f(x^2)$ is
 - a. $-2x^2 + 7$
- b. $-2x^2 7$
- c. $2x^2 7$
- d. None of these
- 85. The value of $\nabla^3 f(2x)$ is
 - a. 4x 13
- b. -4x + 13

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- c. -4x 35
- d. None of these

Which of the following is correct? 86.

a.
$$\Delta^2 f(x+2) = \nabla^2 f(x+3)$$

b.
$$\Delta^2 f(x+3) = \nabla^2 (x+5)$$

c.
$$\Delta^2 f(x + 4) = \nabla^2 f(x + 7)$$

d. None of these

Find the value of x, if $\Delta^2 f(x) = 125$. 87.

- a. 75
- b. 60
- c. 35

d. None of these

Which of the following value of x is valid, if $\nabla^2 f(x) < 0$? 88.

- a. 6
- b. 4

d. None of these

Which of the following value of x is valid, if $\Delta^3 f(x) < 0$? 89.

- a. 4
- d. None of these

How many values of x are satisfied, if 90.

b. 2

$$\Delta^2 f(x) > 0$$
 and $\nabla^2 f(x) < 0$?
a. 1 b. 3 c. 3

- a. 1
- d. None of these

Direction for questions 91 to 100: Answer the questions based on the following function.

c. 2

$$\begin{split} f(x_n,y_n) = & \begin{cases} y_0 + f(x_{n-1},y_{n-1}) \text{ and } f(x_0,y_0) = x_0 - y_0 \text{ if } x_0 > y_0 \\ x_0 + f(x_{n-1},y_{n-1}) \text{ and } f(x_0,y_0) = y_0 - x_0, \text{ if } x_0 < y_0 \end{cases} \\ \text{and } x_0 \text{ and } y_0 \text{ are integers.} \end{split}$$

91. If
$$x_0 = 3$$
 and $y_0 = 1$, then $f(x_3, y_3)$ is a. 6 b. 5 c. 4 d. 8

92. If $x_0 = -3$ and $y_0 = 5$, then $f(x_4, y_4)$ is a. 8 b. 6 c. -4 d. -6

93. If $x_0 = 9$ and $y_0 = 17$, then $f(x_5, y_5)$ is a. 53 b. 47 c. 57 d. -53

94. If $x_0 = 7$ and $y_0 = -1$, then $f(x_4, y_4) - f(x_3, y_3)$ is a. 3 b. 7 c. -1 d. 1

95. If $x_0 = 5$ and $y_0 = -3$, then $f(x_5, y_5) - 4f(x_3, y_3) + 5f(x_1, y_1)$ is
a. 29 b. -19 c. 19 d. 22

96. $f(x_7, y_7)$ is a. $x_0 + 6y_0$ b. $y_0 + 6x_0$ c. Both (a) and (b) d. Either (a) or (b)

97. Which of the following value of x_0 and y_0 is valid, if $f(x_6, y_6) < 0$?

a. $x_0 = 6$, $y_0 = -1$ b. $x_0 = 4$, $y_0 = -1$

a. $x_0 = 6$, $y_0 = -1$ b. $x_0 = 4$, $y_0 = -1$ c. $x_0 = -2$, $y_0 = 12$ d. None of these

98. Which of the following value of x_0 and y_0 is valid, if $f(x_9, y_9) > 0$?

a. $x_0 = -2$, $y_0 = 15$ b. $x_0 = 14$, $y_0 = -2$

c. $x_0 = 9$, $y_0 = -1$ d. None of these

99. How many pairs of x_0 and y_0 are valid, if $f(x_7, y_7) < 0$ and $18 > x_0 > 0$, $-3 < y_0 < 0$?

a. 5 b. 33 c. 16 d. None of these

100. If $-3 < x_0 < 0$, $2 > y_0 > 0$, and $f(x_n, y_n) > 0$, then which of the following value of n is possible?

a. n = 2 b. n = 1 c. n = 3 d. None of these

Direction for questions 101 ot 110: Answer the questions based on the information given below.

Consider a square grid of $(n + 1) \times (n + 1)$ equi-spaced lines, i.e. two sets of (n + 1) parallel to each other such that the lines of one set are perpendicular to the lines of the other set. The distance between any two adjacent parallel lines is 1 cm.

101. In how many ways can two squares of dimensions 1 cm x 1 cm be selected such that they have exactly one corner in common?

a. $(n-1)^2$

b. $2(n-1)^2$

c. 2n²

102. In how many ways can two squares of dimensions 1 cm x 1 cm be selected such that they have exactly one edge in common?

a. n(n – 1)

b. $2n^2 - 4n$

c. $2n^2 - n$

d. 2n(n-1)

103. In how many ways can 9 squares, each of size 1 cm x 1 cm be selected such that they form a square of size $3 \text{ cm} \times 3 \text{ cm}$?

a. $(n-2)^2$

b. $(n-3)^2$

c. (n-2)(n-3)

d. None of these

104. If n is even, in how many ways can two squares of dimensions 1 cm x 1 cm be selected such that they lie along one of the diagonals?

a. n(n - 1)

c. n(n + 1)

d. $(n-1)^2$

105. If n is odd, in how many ways can two squares of dimensions 1 cm x 1 cm be selected such that each of them lies along a diagonal?

a.
$$(n-1)^2$$

b.
$$n(n-1)$$

106. In how many ways can two squares of dimensions 1 cm x 1 cm be selected such that they do not lie on the same column or row?

a.
$$\frac{(n-1)^2}{2}$$

b.
$$\frac{2(n-1)}{2}$$

c.
$$\frac{(n-1)^2 \times n^2}{2}$$

d. None of these

107. How many distinct squares of dimensions m cm \times m cm exists on the board? $(m \le n)$

a.
$$(n - m + 1)^2$$

b.
$$(n - m)^2$$

c.
$$(n - m + 1) (n - m)$$

d. None of these

108. In how many ways can 5 squares, each of dimension 1 cm x 1 cm be selected such that any two out of 4 of these do not have any corner common between them but each of these 4 have exactly one corner common with the fifth one?

a.
$$(n-2)^2$$

b.
$$(n + 1)^2$$

c.
$$n(n-2)$$

$$d. n(n + 1)$$

How many rectangles of distinct area are present on the board?

a.
$$\frac{n(n+1)}{2}$$

a.
$$\frac{n(n+1)}{2}$$
 b. $\frac{n(n-1)}{2}$

c.
$$(n-1)^2$$

d.
$$\frac{n^2}{2}$$

110. In how many ways can two squares of dimension 1 cm x 1 cm be selected such that they do not have even a single corner in common?

a.
$$\frac{(n^4 - 9n^2 + 12n - 4)}{2}$$

a.
$$\frac{(n^4 - 9n^2 + 12n - 4)}{2}$$
 b. $\frac{(n^4 - 9n^2 - 12n - 4)}{2}$

c.
$$\frac{(n^4 + 9n^2 - 12n + 4)}{2}$$
 d. $\frac{(n^4 + 9n^2 + 12n - 4)}{2}$

d.
$$\frac{(n^4 + 9n^2 + 12n - 4)}{2}$$

Direction for questions 111 to 120: Answer the questions based on the information given below.

On Mars, any polynomial $C_0x^0 + C_1x^1 + C_2x^2 + ... + C_nx^n$ is expressed as $(C_0, C_1, C_2, \dots C_n)$. Further the kth quotient when the polynomial is divided by (x - A) is expressed and given by the following operation:

$$(C_0, C_1, C_2, ... C_n) * A * k = f^k (A, C_0, C_1, C_2, ... C_n)$$
 where $f^k(x_1, x_2, x_3, ..., x_n) = f^1(x_1, f^{k-1}(x_1, x_2, x_3, ..., x_n))$ if $k \ne 1$ and $= B_1, B_2, B_3, ..., B_{n-1}$ where $k = 1$, such

that
$$B_n = \begin{cases} x_{n+1} + x_1 \times B_{n-1} & \text{for } n > n \\ x_{n+1} & n = 1 \end{cases}$$

111. What is the second quotient when $x^2 - 5x + 6$ is divided by (x - 3)?

a. 0

b. 6, 31, 133

c. 1, 1, 3

d. None of these

112. If the 2nd quotient when a polynomial is divided by (x-2) is 1, 2, 4, 8, then what is the 3rd quotient for the same division?

a. 1, 4, 8, 16

b. 1, 4, 8, 32

c. 1, 4, 12, 32

d. Cannot be determined

113. What is the 3rd quotient when $x^3 - x^2$ is divided by (x + 1)?

a. -1, 4

b. 0, 0, -1, 4

c. 1, -4

d. None of these

114. (1, 2, 0, 2, 1)*4*1 = ?

a. 1, 6, 24, 98, 393

b. 1, 5, 12, 24, 42

c. 1, 6, 18, 42, 84

d. None of these

115. ((12, 6, 3)*2*1)*1*2)

a. 12, 42, 105

b. 12, 30, 51

c. ((12, 6, 3)*1*2)*2*1)

d. None of these

116. If the 3rd quotient of a polynomial divided by (x + 1) is 3, 5, 2, 7, the 2nd quotient of the same division is

a. 3, 8, 7, 9

b. 3, 2, 3, 5

c. 3, 2, 7, 5

d. Cannot be determined

Additional direction for 117 to 120 : Answer the questions based on the information given below.

The 5th quotient of a division is 5, 6, 10, 9 and the 6th quotient for the same division is x, y, z, 93 where x, y, z are unknowns

117. In the above division, if the divisor is (x - A), then the value of A is

- a. 1
- b. 2
- c. 3
- d. None of these

118. x = ?

- a. 5
- b. 6
- c. 10
- d. 9

119. y = ?

- a. 11
- b. 16
- 2. 1
- d. 4

120. z = ?

- a. 16
- b. 23
- c. 28
- d. 42

Direction for questions 121 to 130: Answer the questions based on the information given below.

A sequence of numbers s_1 , s_2 , s_3 ,..., s_n is denoted by S. $T(S, k, x_1, x_2, x_3,..., x_k)$ breaks the sequence S into k distinct sequences S_1 , S_2 , S_3 ,... S_k such that

$$S_n = s_{x_0 + x_1 + \dots + x_{n-1}}, s_{x_0 + x_1 + \dots + x_{n-1} + 1}, \dots, s_{x_0 + x_1 + \dots + x_{n-1} + (x_n - 1)}$$
 where $x_0 = 1$ (given that $x_1 + x_2 + x_3 + \dots + x_k = n$)

Further the following transformations are defined on any sequence of numbers.

$$F(s_0, s_1, s_2, s_3, ..., s_n) = s_n, s_{n-1}, s_{n-2}, ..., s_0$$

121. $S = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. S_2 \text{ of } T(S, 3, 2, 3, 5) = ?$ a. 1, 2, 3 b. 4, 5, 6 c. 2, 3, 4 d. 3, 4, 5

122. S = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. $S_1 \text{ of } T(S_3 \text{ of } T(S, 3, 2, 3, 5), 2, 1, 4) = ?$ a. 3, 4, 5 b. 3 c. 6 d. 7

123. $S = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. F(S_2 \text{ of } T(S, 2, 4, 6)) = ?$ a. 5, 6, 7, 8, 9, 10 b. 10, 9, 8, 7, 6 c. 4, 3, 2, 1 d. None of these

124. If F(S₂ of T(S, 2, 2, 2)) = (4, 5), then s₄ of S = ?
 a. 4
 b. 5
 c. 2
 d. Cannot be determined

125. $S_1 = 3, 5, 7; S_2 = 2, 5; S_3 = 1, 7, 9$ are the complete result of T(S, k, $x_1, x_2, ..., x_k$), then S = ? a. 3, 5, 7, 2, 5, 1, 7, 9 b. 1, 7, 9, 2, 5, 3, 5, 7 c. 7, 5, 3, 5, 2, 9, 7,1 d. None of these

126. In question 125, the value of k = ?
a. 1 b. 2 c. 3 d. 4

127. In question 125, the value of $x_3 = ?$ a. 1 b. 2 c. 3 d. 4

128. S = 1, 3, 5, ..., 95, 97, 99. $F(S_{20} \text{ of } T(S, 25, 2, 2, 2, ..., 2)) = ?$ a. 77, 79 b. 81, 79 c. 79, 77 d. 77, 75 129. If S is as defined in question 128 and

 S_k of T(S, 25, 2, 2, 2, ..., 2) = 61, 63, then <math>k = ?

- a. 25
- b. 16 c. 15
- 130. If S = (1, 4, 7, ..., 34) and $T(S, k, x_1, x_2, x_3, ..., x_k)$ is a valid transformation, then the value of $x_1 + x_2 + x_3 + ... + x_k$ = ?
 - a. 9
- b. 10
- c. 11

Direction for questions 131 to 140: Answer the questions based on the following information.

The function 'f' is defined as $f(x_n, x_{n-a}, x_{n-b}, x_{n-c}, \dots, x_{n-j}, k)$

$$= k^{n}(x-j) + k^{n-a}(x-i) + k^{n-b}(x-h) + \dots + k^{n-i}(x-a) + k^{n-j}x$$

where k is a non-negative integer and a, b, c, ..., j, and n are natural numbers.

- 131. Find the expression of the function $f(x_5, x_4, x_3, x_2, 1)$.
 - a. 5x 10
- b. 5x + 10
- c. 4x 6
- d. None of these
- 132. Find the expression of the function $f(x_6, x_4, x_2, x_1, 2)$.
 - a. 84×-392
- b. 86x 392
- c. 102x 396
- d. None of these
- 133. Find the expression of the function $f(x_7, x_5, x_3, x_2, x_1, 2)$.
 - a. 174 x 968
- b. 170 x 946
- c. 172x + 396
- d. 192x 946
- 134. Find the expression of the function $f(x_9, x_8, x_5, x_3, x_1, 0)$.
 - a. 1024 x 1626
- c. 810x 1024
- d. None of these

135. Find the value of the function $f(x_6, x_5, x_4, x_{-2}, 2)$, if x = -4.

a. -1141

b. -491

c. -941

d. -1041

136. Find the value of the function $f(x_4, x_3, x_2, x_{-1}, 3)$,

if x = 3.

a. -116

b. -208

c. -207

d.-117

137. Find the expression of the function $f(x_5, x_3, x_2, x_{-1}, 2)$.

a. 42x - 124

b. 85x - 448

c. $\frac{89x - 448}{2}$

d. None of these

138. Which of the following function has the expression value 39x –63?

a. $f(x_3, x_{-1}, x_{-2}, 3)$

b. $f(x_4, x_3, x_2, 2)$

c. $f(x_3, x_2, x_1, 3)$

d. $f(x_3, x_2, x_{-1}, 2)$

139. Find the function of the value 6, if x = 5.

a. $f(x_3, x_{-1}, x_{-2}, 1)$

b. $f(x_3, x_{-1}, x_{-2}, 3)$

c. $f(x_3, x_2, x_1, 3)$

 $d. f(x_3, x_2, x_{-1}, 1)$

140. Which of the following function has the correct expression?

a. $f(x_3, x_{-1}, x_{-2}, 3) = 3^3(x - 5) + 3^{-1}(x - 4) + 3^{-2}x$

b. $f(x_3, x_{-1}, x_{-2}, 3) = 3^3(x+5) + 3^{-1}(x+4) + 3^{-2}x$

c. $f(x_4, x_3, x_2, x_{-1}, 3)$

 $=3^{4}(x+5)+3^{3}(x-2)+3^{2}(x-1)+3^{-1}x$

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d. None of these

Section - III

141.	The person in a company t and networking issues is ca a. Administrator c. Networking Specialist	b. Database Administrator
142.	The instrument that acts a personal digital assistant is a. Cellphone c. Palmtop	s a mobile phone and as a called b. Simputer d. None of these
143.	What is the capital of Ethio a. Addis Ababa c. Abuja	pia? b. Dar es Salaam d. Harare
144.	Which of the following is the a. Kiev b. Dilli	e capital city of East Timor? c. Zagareb d. Abidjan
145.	The ocean that occupies occupied by the earth is a. Atlantic Ocean c. Pacific Ocean	larger area than the area b. Arctic Ocean d. Indian Ocean
146.	is	an gold in the given options c. Platinum d. Uranium
147.	company has filed for bank the name of this company f	with this company and this ruptcy also. Can you identify rom the given options? c. Fuji d. Konica
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148. World Consumer Day is observed on

a. June 5

b. July11

c. September 27

d. March 15

149. Which conference was responsible for the establishment of IMF?

a. Uruguay Round

b. Bretton Woods

c. Kyoto Conference

d. None of these

150. Who was the black American leader who received the Nobel Prize in 1964?

a. Xnana Gusmao

b. Dr. Martin Luther King Jr.

c. Nelson Mandela

d. Kenneth Conda

151. What is the name given to the area/road between San Jose and Palo Alto?

a. Bermuda Triangle

b. 48th Parallel

c. Silicon Valley

d. 38th Parallel

152. What is Hamas?

a. Name of a Pakistani missile

b. Militant Group of Palestine

c. Name of the Iranian Parliament

d. Nick name of Yasser Arafat

153. First person of the Indian origin to win the Nobel Prize was

a. Hargobind Khorana

b. Rabindra Nath Tagore

c. C. V. Raman

d. S. Chandrashekhar

154. Which Indian state is the maximum producer of manganese?

a. Orissa

b. Madhya Pradesh

c. Bihar

d. Karnataka

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- 155. Name the first Indian movie to have been insured by GIC.
 - a. Taal

- b. Hum Apke Hain Kaun
- c. Sarfarosh
- d. Dil Chahata Hai
- 156. Name the first Indian company to have been listed on NYSE.
 - a. Infosys Technologies
- b. Wipro Technologies
- c. Reliance Industries
- d. ICICI
- 157. What is Prime Meridian?
 - a. It is the zero degree longitude from which the south and north are reckoned.
 - b. It is the zero degree latitude from which north and south are reckoned.
 - c. It is the zero degree longitude from which the east and west are reckoned.
 - d. It is the zero degree latitude from which east and west are reckoned.
- Name the fabric that is named on the place called Nime 158. in France.
 - a. Denim
- b. Khaki
- c. Polyester d. Rayon
- 159. The latest country to have joined the United Nations is
 - a. Tuvalu
- b. Switzerland
- c. East Timor
- d. Nauru
- 160. Who among the following personalities is the winner of the Nobel Prize for Literature for 2003?
 - a. D. B. C. Peare
- b. J. M. Coetzee
- c. V. S. Naipaul
- d. Margret Atwood

- 161. What is HELPAGE India?
 - a. An organization for the support of the poor and elderly.
 - b. An organization for the support of the blinds.
 - c. An organization for the support of the helpless women.
 - d. A project launched by the Maharashtra government for the help of the orphan children.
- 162. A line drawn on the map, along which the value of a particular phenomenon or product is uniform, is known as
 - a. Isobath b. Isonomal c. Isohalines d. Isopleth
- 163. Which of the following famous personalities autobiography is titled as Daughter of the East?
 - a. Aung San Suu Kyi
- b. Benazir Bhutto
- c. Megawati Sukarnoputri d. Chandrika Kumaratunge
- 164. The first factory of East India Company was established at
 - a. Bombay
- b. Madras
- c. Calcutta
- d. Surat
- 165. Which of the following is NOT a Special Economic Zone (SEZ)?
 - a. Kandla
- b. Surat
- c. Mumbai
- d. Bhopal
- 166. The present chief minister of Uttar Pradesh is
 - a. Mulayam Singh Yadav
- b. Mayawati
- c. Rajnath Singh
- d. Kalyan Singh
- 167. Einstein's last letter was addressed to which of the following peacemakers?
 - a. F. D. Roosvelt
- b. Bertrand Russell
- c. Martin Luther King
- d. Clement Atlee

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168.	Which among the following represents the place where
	the headquarters of Red Cross are located?

a. Rome

b. Geneva

c. London

d. Berne

169. The new chairman of IRDA is

a. N. Rangachari

b. C. S. Rao

c. C. Ranagarajan

d. Dr. Bimal Jalan

170. The name of the movie directed by Steven Spielberg nominated for 11 categories in Oscars but did not win any is

a. Schindler's list

b. The Colour Purple

c. Amistad

d. Saving Private Ryan

171. Who discovered the safety lamp?

a. William Harvey

b. Humphry Davy

c. James Watt

d. Thomas Alva Edison

172. The first Indian state to have launched the train called 'Palace on Wheels' is

a. Madhya Pradesh

b. New Delhi

c. Rajasthan

d. Maharashtra

173. Name the instrument used for measuring the atmospheric pressure.

a. Odometer

b. Barometer

c. Lactometer

d. Sphygmomanometer

174. Department of Posts launched eSeva in collaboration with which of the companies?

a. Nettlinx Ltd

b. HCL Technologies

c. i-Flex Solutions

d. Silverline Technologies

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175. Who is known as the Father of Genetics and is known for conducting experiments with peas?

a. G. J. Mendelb. Charles Darwinc. Franklin Rosalindd. M. J. Schleiden

176. Who is the founder of Jainism?

a. Rishabhab. Mahavirc. Parshvanathd. Shantinath

177. Rights of prisoners of war are associated with which of the following conventions?

a. The Hague Conventionb. Geneva Conventionc. Prague Conventiond. Kosovo Convention

178. Emergency declaration by the President due to the constitutional breakdown of the machinery in the state is associated with which of the following articles of the Constitution?

a. Article 280b. Article 352c. Article 356d. Article 370

179. LAN is a type of

a. Internet b. Intranet

c. Modem d. Computer software

180. What is the expansion of NAFTA?

a. North Atlantic Free Trade Association

b. North American Free Trade Agreement

c. New American Free Trade Association

d. New Association of Freely Trading Americans

181.	Which of the women empora. Ela Bhatt c. M. C. Meh	owerment?	b. Dr. Vanda	ssociated with na Shiva umdar Shaw
182.	•			
183.	Drain of wealth was the politicians in one of his boo a. Jawaharlal Nehru c. D. N. Naoroji			Gandhi
184.	What is the equivalent of rea. Bluntness c. Profanity		eligious outspo b. Blasphen d. Sacrilege	ny
185.	What is the present literacy rate of India? a. 52.35% b. 56.48% c. 62.78% d. 65.38%			
186.	last census	to	a has risen fro c. 51.69%	m 39.3% in the d. 54.16%
187.		ne jump in the		rdware exports

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188. The chief guest during the Republic Day parade 2003

d. 94%

a. 78% b. 83% c. 89%

a. Nelson Mandela

b. Mohammad Khatami

c. Thaksin Shinawatra

d. S. R. Nathan

189. Harry Potter series is authored by

a. Jhumpa Lahiri

b. J. K. Rowling

c. E. M. Foster

d. Irwing Wallace

190. Who among the following personalities is the author of the book titled *Small is beautiful?*

a. E. F. Schumacher

b. Abraham Maslow

c. Adam Smith

d. Robert A. Mundell

191. The meaning of Utopia is

a. any real or imaginary perfect place

b. state of trans

c. excited state

d. enlightened state

192. What is Amnesty International?

a. World's foremost medical organization

b. World's foremost human rights organization

c. World's foremost philanthropic organization

d. An Scout and Guides Organization

193. Forest Research Institute is based at

a. Indore

b. Lucknow

c. Dehra Dun

d. Gwalior

194. Why did USA abandoned the use of Mercury thermometers?

a. Because its readings were not accurate

b.To reduce the mercury pollution as it is non-biodegradable

- c. Because other cheaper substitutes of Mercury are available
- d. None of these
- 195. What does Sharda Act deal with?
 - a. Prohibition of child labour
 - b. Prohibition of child marriage
 - c. Prohibition of dowry system
 - d. Prohibition of Sati pratha
- 196. Which of the following countries would you associate with the initiation of the Industrial Revolution?
 - a. France
- b. Germany c. England d. China
- 197. In the 552 members of the Lok Sabha, how many members are there from the Union Territories?
 - a. 40
- b. 30
- c. 20
- d. 10
- 198. The Indian state that has the lowest population, according to the latest census 2001, is
 - a. Tripura
- b. Nagaland c. Sikkim
- d. Manipur
- 199. The first Non-Aligned countries conference took place in 1961 at
 - a. Durban
- b. Lisbon
- c. Belgrade d. New Delhi
- 200. The minimum age required to become the President, Vice-President of India or Governor of an Indian state is
 - a. 35 years
- b. 30 years
- c. 25 years
- d. 21 years