



RED SWASTIKA SCHOOL

CA2

RED SWASTIKA SCHOOL

2004 CONTINUAL ASSESSMENT 2

SCIENCE

Name : _____ ()

Class : Primary 4/ _

Date : 26 August 2004

BOOKLET A

26 Questions

52 Marks

Duration of Paper : 1 hour 15 minutes

Note:

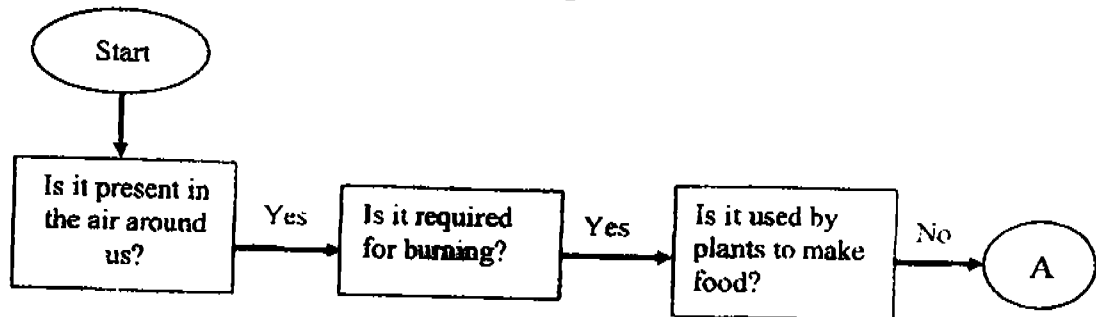
1. Do not open this Booklet until you are told to do so.
2. Questions 1 - 30 are to be done on the OAS provided.
3. Read carefully the instructions given at the beginning of each part of the Booklet.
4. Do not waste time. If a question is difficult for you, go on to the next one.
5. Check your answers thoroughly and make sure you attempt every question.

Section A: MCO (26 Questions x 2 marks = 52 marks)

Choose the most suitable answer and shade its number in the OAS provided.

1. In the water cycle, after water is returned to Earth, it starts to _____
- (1) boil
 - (2) condense
 - (3) evaporate
 - (4) freeze
2. Water polluted by soil becomes cloudy. This causes the water plants to die due to the lack of _____.
- (1) water
 - (2) oxygen
 - (3) sunlight
 - (4) nutrients

3. The flow chart below describes a type of gas.



What gas is represented by A?

- (1) Oxygen
 - (2) Nitrogen
 - (3) Hydrogen
 - (4) Carbon dioxide
4. Look at the diagram shown below.



An ice cube was left on a table and after some time, it melted. It showed a change in _____.

- (1) taste
- (2) state
- (3) colour
- (4) substance





5. The following statements describe a matter.

- A: It occupies space.
- B: It has no definite shape.
- C: It has a definite volume.

Which one of the following fits the description of statements A, B and C?

- (1) Oil
- (2) Marble
- (3) Nitrogen
- (4) Water vapour

6. Which one of the following parts of a plant protects the seeds?

- (1) 
- (2) 
- (3) 
- (4) 

7. _____ is a gas produced by all living things during respiration.

- (1) Oxygen
- (2) Hydrogen
- (3) Nitrogen
- (4) Carbon dioxide

8. Which of the following processes are important for the water cycle to take place?

- A: Evaporation
- B: Condensation
- C: Freezing
- D: Melting

- (1) A only
- (2) B only
- (3) A and B only
- (4) C and D only

9. Our body is made up of different systems. The _____ system moves blood all around the body.

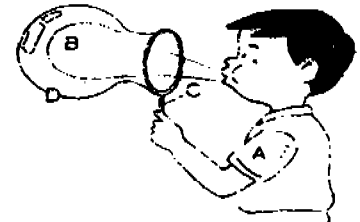
- (1) skeletal
- (2) muscular
- (3) respiratory
- (4) circulatory

10. The number of heartbeats of a person is affected by his _____

- A: age
- B: race
- C: gender
- D: activity

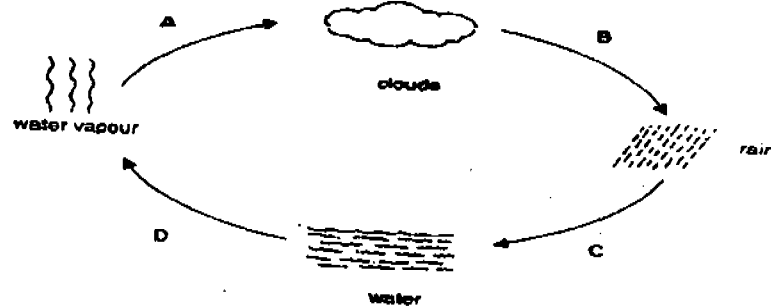
- (1) A only
- (2) A and D only
- (3) A, B and C only
- (4) A, B, C and D

11. Look at the picture to the right.
Which statement is true in relation to the picture?



- (1) A, B, C and D are all matter.
- (2) A, B and C are matter while D is not.
- (3) A, C and D are matter while B is not.
- (4) A and C are matter while B and D are not.

12. The diagram below shows the water cycle.



Each arrow represents a stage in the water cycle. At which stage is there a change from the gaseous state to the liquid state?

- (1) A
- (2) B
- (3) C
- (4) D

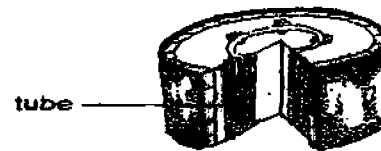
13. In the circulatory system, the _____ connect arteries to veins.

- (1) cells
- (2) tubes
- (3) joints
- (4) capillaries

14. A deer is hunted and eaten by a lion. The energy from the _____

- (1) lion is transferred to the deer
- (2) deer is transferred to the lion
- (3) deer is transferred to the Sun
- (4) deer is transferred to the surrounding

15. Which one of the following contains the least amount of oxygen?
- (1) Blood flowing from the heart.
 - (2) Blood flowing towards the brain.
 - (3) Blood flowing towards the lungs.
 - (4) Blood flowing away from the lungs.
16. The skeletal system is important to us in many ways. One of the functions of the skeleton is to _____.
- (1) move the body
 - (2) give us strength
 - (3) protect the body
 - (4) support the body
17. The diagram below shows tiny tubes in a stem. Which of the statements about the functions of the tubes are correct?



- A: They help to hold the stem upright.
 B: Food made in the leaves is stored here.
 C: They carry food made in the leaves to other parts of the plants.
 D: They transport water and mineral salts from the roots to other parts of the plants.
- (1) A and B only
 - (2) C and D only
 - (3) B, C and D only
 - (4) A, B, C and D
18. The _____ is a muscle which moves to allow for the expansion and contraction of the lungs.
- (1) heart
 - (2) air sacs
 - (3) rib cage
 - (4) diaphragm
19. Which part of the skeletal system supports the body in an upright position?
- (1) Hip bone
 - (2) Leg bone
 - (3) Arm bone
 - (4) Backbone
20. The function of the stem in plants is to _____.
- (1) protect the seed
 - (2) hold the plant upright
 - (3) store food for the plant
 - (4) hold the plant firmly to the ground

21. Which of the following shows how food is made in the leaves.
- (1) oxygen + water \longrightarrow sugar
 - (2) oxygen + sugar \longrightarrow starch
 - (3) carbon dioxide + water \longrightarrow sugar
 - (4) carbon dioxide + sugar \longrightarrow starch
22. One of the organs in the digestive system is the _____.
- (1) heart
 - (2) brain
 - (3) lungs
 - (4) small intestine
23. The blood vessels that carry oxygen-rich blood from the heart to all parts of the body are called _____.
- (1) arteries
 - (2) air sacs
 - (3) veins
 - (4) capillaries
24. Muscles are used when we _____.
- A: think
 - B: smile
 - C: chew food
 - D: blink our eyes
- (1) C and D only
 - (2) B and C only
 - (3) B, C and D only
 - (4) A, B, C and D
25. As Mrs. Tan was chopping some vegetables, she accidentally cut her finger. She started bleeding because _____.
- (1) her skin tore
 - (2) she was unhealthy
 - (3) her finger bone was broken
 - (4) some blood vessels in her finger were cut
26. Which one of the following statements about energy is false?
- (1) Energy is needed to do work.
 - (2) Energy is not a type of matter.
 - (3) Energy exists only in one form.
 - (4) Living things get energy from food.



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2004 CONTINUAL EXAMINATION 2

SCIENCE

Name : _____ ()

Class : Primary 4/ _ _

Date : 26 August 2004

BOOKLET B

13 Questions
38 marks

MARKS

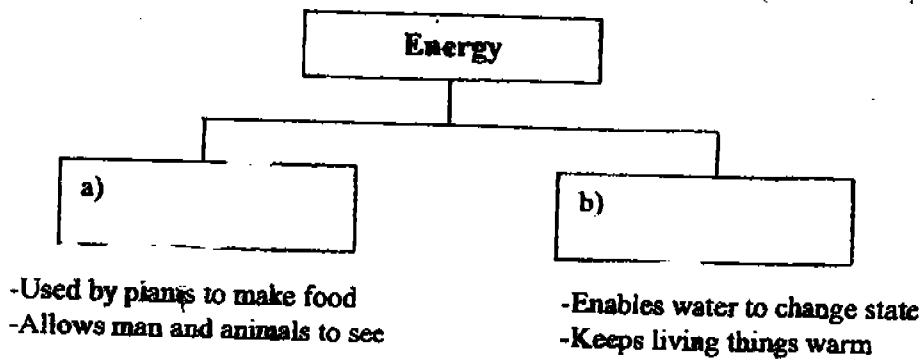
	OBTAINED	POSSIBLE
BOOKLET A		52
BOOKLET B		38
TOTAL		90

Parent's Signature : _____

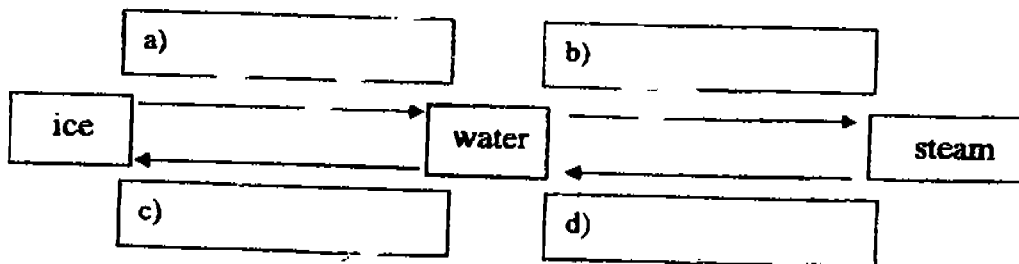
Section B: Open-ended (13 Questions = 38 marks)

Answer all the questions in the space provided.

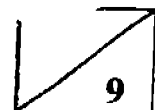
27. Refer to the classification table below. Fill in each box with the correct form of energy. (2 m)



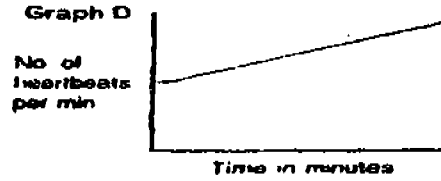
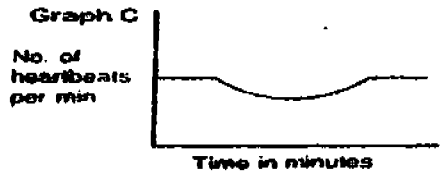
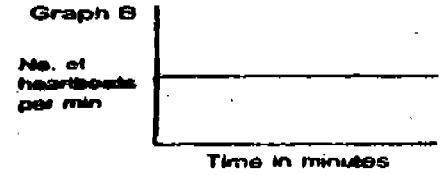
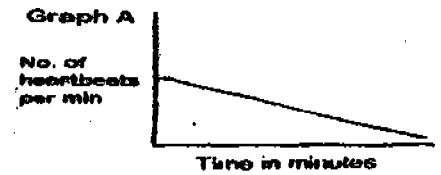
28. Study the diagram below and fill in the boxes with either gains heat or loses heat. (2 m)



- 29a) All living things need energy. Where do plants get energy to make food? (1 m)
-
- b) Where do carnivores get their energy? (1 m)
-
30. Karen was involved in a serious accident which caused her rib cage to be completely damaged.
- a) Which two organs in her body are likely to be most affected? (2 m)
-
- b) If she also suffered from head injuries, which part of the skeletal system was affected? (1 m)
-



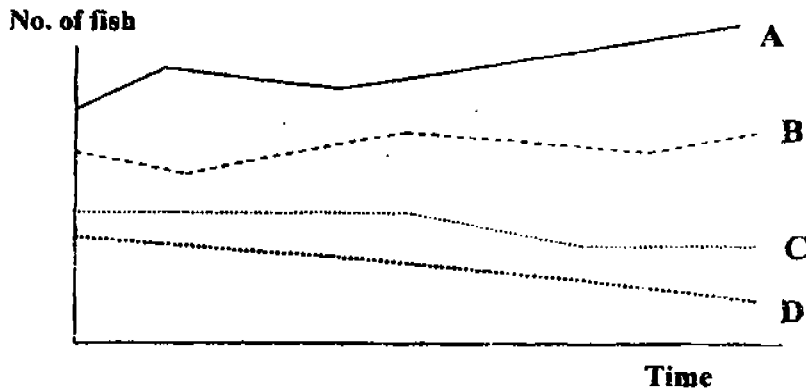
31. Study the graphs below carefully.



- a) Graph _____ shows the correct change in a person's heart rate during exercise. (1 m)
- b) Give a reason for your answer in (a) above. (2 m)

- c) A person's heart will only stop beating when he is _____ (1 m)

32. The graph below shows the number of fish in four rivers A, B, C and D over a period of time.

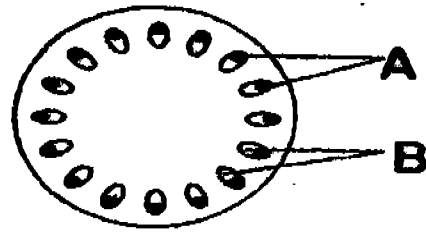


- a) Which river, A, B, C or D in the graph above is the most polluted? (1 m)
- _____
- b) Give two causes of water pollution.
- (i) _____
- (ii) _____



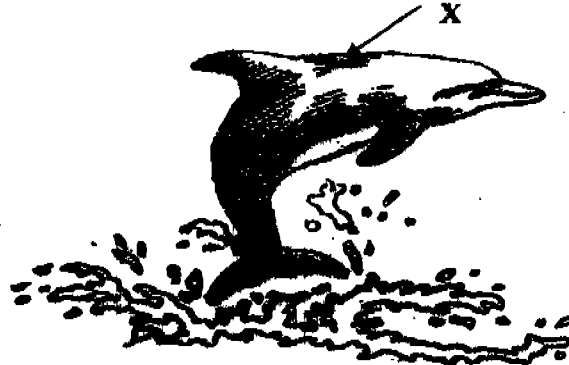
33a). The diagram below shows the cross section of a stem. A and B are tubes found in the stem. Fill in the boxes with A or B. (2 m)

- i) These tubes carry food.
- ii) These tubes carry water.



b) The tubes that carry water are called _____ (1 m)

34. Look at the picture of the animal below.



a) What is X? (1 m)

b) What is the function of X? (2 m)

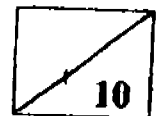
c) Name another animal that uses X for the same function? (1 m)

35a) Why is the Sun important in the water cycle? (1 m)

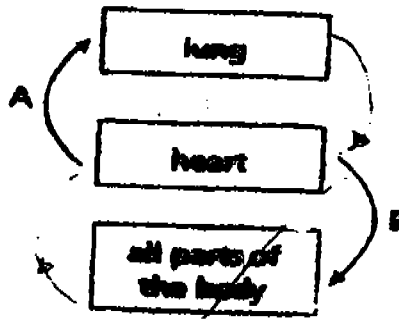
b) A reservoir is a man-made structure built to collect rainwater. Name 2 natural water bodies where rainwater is collected. (2 m)

(i) _____

(ii) _____

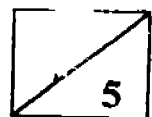
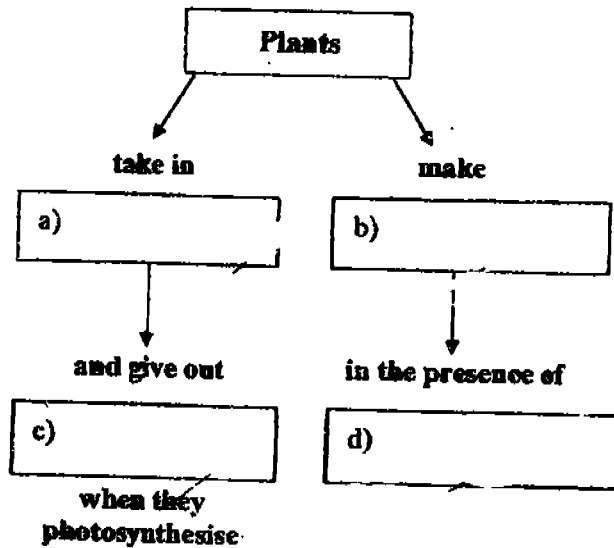
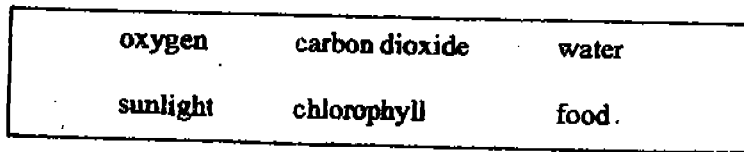


36. The diagram below shows the circulation of blood in the human body.

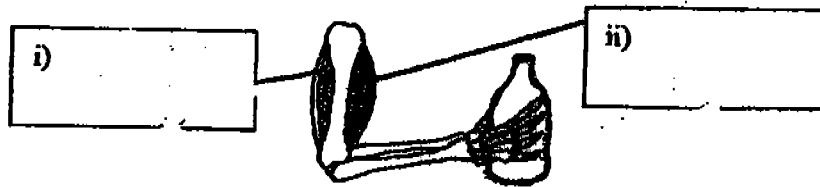


- a) Draw 2 more arrows to complete the diagram. (2 m)
- b) State one difference between the blood flowing in A and that flowing in B. (1 m)

37. Fill in the boxes with the correct words. (2 m)

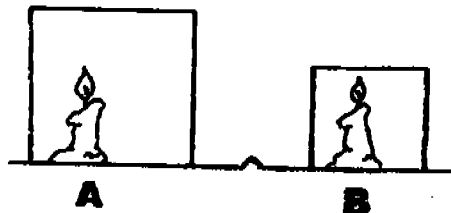


- 38a). Muscles often work in pairs, when one muscle contracts, the other relaxes. The diagram below shows a person lifting a bottle. Fill in the blanks with either contract or relax. (2 m)



- b) What type of joint is found on the elbow? (1 m)

39. John set up an experiment as shown below. The two candles are of the same type, size and length at the start of the experiment.



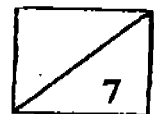
- a) Which candle will be longer after half an hour? (1 m)

- b) Give a reason for your answer in (a). (2 m)

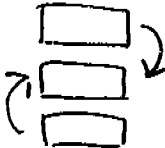
John set up another experiment and found that the flame went out after a short time. He deduced that the snail was giving off carbon dioxide.



- c) How will he be able to confirm his deduction? (1 m)



CAL

- 1) 3 27) a) light b) heat
- 2) 3 28) a) gain>heat b) gain>heat
 c) lose>heat d) lose>heat
- 3) 1
- 4) 2 29) a) Plants get their energy to make food from
 the sun.
 b) They get their energy from the food they eat.
- 5) 1
- 6) 3 30) a) Heart and lungs b) Skull
- 7) 4
- 8) 3 31) a) D
 b) The heart will beat faster during exercise to
 pump more food and oxygen to the muscles.
 c) dead.
- 9) 4
- 10) 2 32) a) River D
 b) i) Dumping of untreated sewage into the water.
 ii) Dumping of rubbish into the river.
- 11) 1
- 12) 2 33) a) i) A ii) B b) Xylem tubes
- 13) 4 34) a) Blowhole b) To help them breathe.
 c) The whale
- 14) 2
- 15) 3 35) a) Enable the water to change state.
 b) i) Lakes ii) Rivers
- 16) 4
- 17) 2 36) a)  b) Blood flowing in A is
 rich in carbon dioxide
 while blood flowing in
 B is rich in oxygen.
- 18) 4
- 21) 3 37) a) carbon dioxide b) food c) oxygen
 d) sunlight
- 22) 4
- 23) 1 38) a) i) relax ii) contract
 b) It is a hinge joint.
- 24) 3
- 25) 4 39) a) B
 b) B will be extinguished faster due to B having
 less oxygen.
 c) By having a control experiment with only a
 candle but no snail.

METHODIST GIRLS' SCHOOL (PRI)
PRIMARY FOUR
SCIENCE CA1 2004

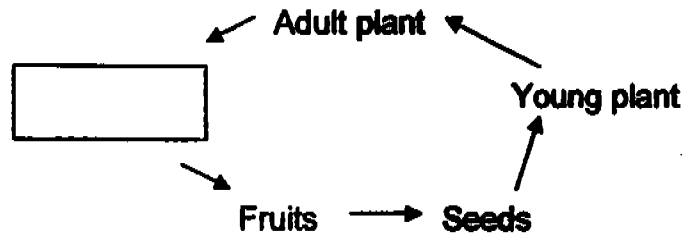
CA1

Name: _____ Class: P4. _____ Date: _____

Section A (30 marks)

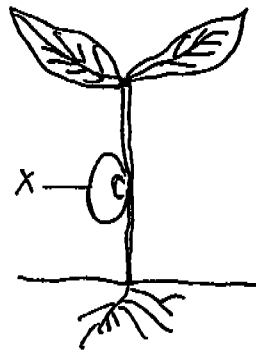
Choose the correct answer and circle its number on the optical answer sheet provided.

1. The diagram below shows the life cycle of a tropical plant.



The missing stage is _____.

- (1) Stem
 - (2) Root
 - (3) Leaf
 - (4) Flower
2. What is the main function of the part labelled X?



- (1) Stores chlorophyll.
- (2) Protects the seedling.
- (3) Joins the stem to the leaf.
- (4) Provides the seedling with food.

3. Leaves can make food when they have enough _____.

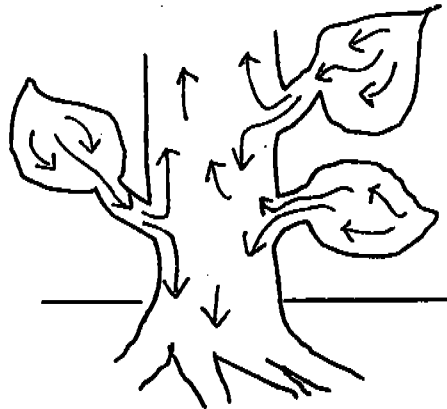
- (1) sunlight, water and soil
- (2) oxygen, water and sunlight
- (3) water, minerals and sunlight
- (4) carbon dioxide, water and sunlight

4. Which of the following are the functions of the stomata in leaves?

- A: To allow air to enter the plant.
- B: To make food for the plant.
- C: To transport sunlight to the plant.
- D: To remove excess water from the plant.

- (1) A & B
- (2) A & C
- (3) A & D
- (4) A, C & D

5.

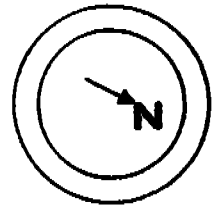
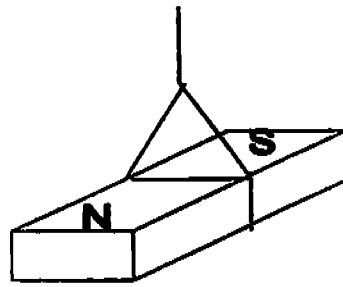


Which of the following statements are the correct descriptions for the diagram above?

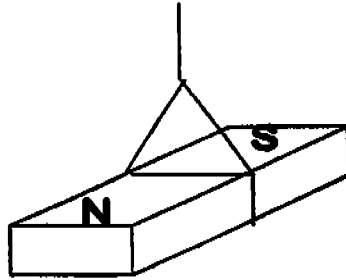
- A) Water enters the leaves and passes into tiny tubes.
- B) Food made by the green leaves passes into tiny tubes.
- C) Tiny tubes transport the food to the other parts of the plant.
- D) Tiny tubes that transport the food are the same as those that transport water.

- (1) A & B only
- (2) B & C only
- (3) C & D only
- (4) A, B, C & D

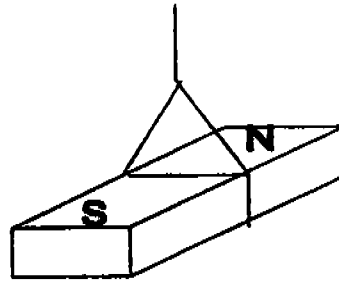
6. A magnet that is suspended on a string (as shown in the diagram below) is made to rotate. Which direction will it face when it stops rotating?



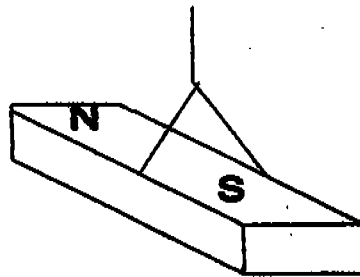
(1)



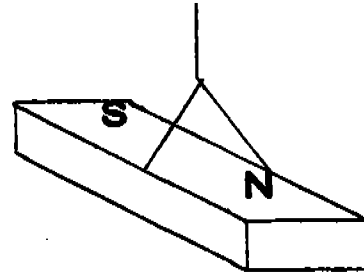
(2)



(3)



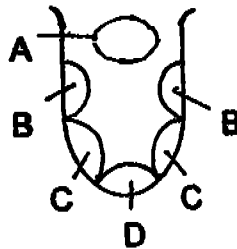
(4)



7. Our shoulder and hip joints are _____ joints.

- (1) hinge
- (2) circular
- (3) ball and socket
- (4) long

8. Which part of the tongue tells us if a taste is sweet?



- (1) A
- (2) B
- (3) C
- (4) D

9. Which one of the following is not true of the brain?

- (1) The brain is an important organ.
- (2) The brain controls our intelligence and personality.
- (3) The brain controls everything that goes on in a body.
- (4) The brain determines our appearance, height and weight.

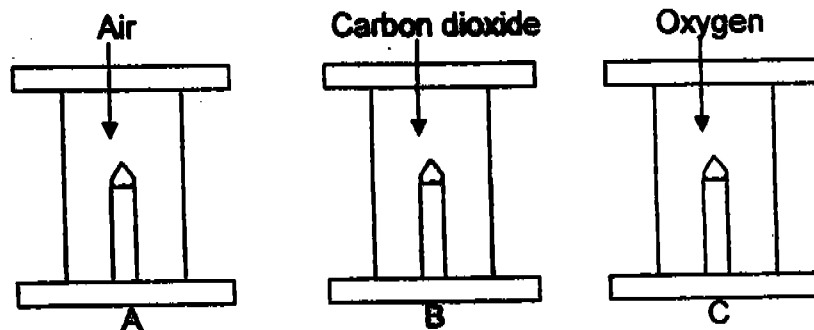
10. Digestion is completed in the _____.

- (1) small intestine
- (2) large intestine
- (3) stomach
- (4) anus

11. The air we breathe out is warmer than the normal air because it _____.

- (1) has more water vapour
- (2) contains more carbon dioxide
- (3) has absorbed heat from the body
- (4) contains heat from the removal of oxygen

12. Ali had 3 gas jars A, B and C. He placed a burning candle in each of the jars. He then filled the jars with air, carbon dioxide and oxygen respectively, as shown below.



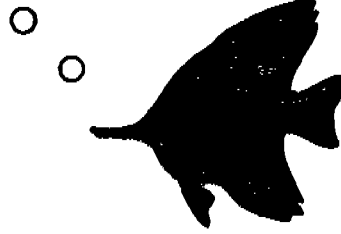
Which one of the following shows the order that the candles in the jars would extinguish?

- (1) A, B and C
- (2) C, A and B
- (3) B, A and C
- (4) B, C and A

13. A bird breathes through its _____ while a fish breathes through its _____.



Bird



Fish

- (1) skin, gills
(2) skin, lungs
(3) lungs, gills
(4) lungs, skin
14. When we exercise, _____.
- A: blood is circulating at a faster rate
B: more carbon dioxide is produced
C: our heart is beating at a faster rate
D: we need more oxygen to produce energy
- (1) A & D only
(2) C & D only
(3) A, C & D only
(4) All of the above
15. The undigested food is _____.
- (1) returned to the stomach
(2) stored in the large intestine
(3) stored in the small intestine
(4) absorbed into our blood stream

NAME : _____

DATE : _____

CLASS : _____

WRITE		SHADE OVALS									
INDEX NUMBER		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		0	1	2	3	4	5	6	7	8	9
		A	B	C	D	E	F	G	H	I	J

SUBJECT: _____

EXAMPLE: IF YOU THINK
THE 2ND OPTION IS THE
CORRECT ANSWER SHADE
THE OVAL 2 LIKE THIS:

1 2 3 4

1 1 2 3 4

2 1 2 3 4

3 1 2 3 4

4 1 2 3 4

5 1 2 3 4

6 1 2 3 4

7 1 2 3 4

8 1 2 3 4

9 1 2 3 4

10 1 2 3 4

11 1 2 3 4

12 1 2 3 4

13 1 2 3 4

14 1 2 3 4

15 1 2 3 4

16 1 2 3 4

17 1 2 3 4

18 1 2 3 4

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21 1 2 3 4

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53 1 2 3 4

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59 1 2 3 4

60 1 2 3 4

- 1) 4 16) a) veins b) stalk c) leaf blade
- 2) 4 17) Sight and hearing
- 3) 4 18) Muscles bones
- 4) 3 19) It helps to protect our internal organs and support our bodies.
- 5) 2
- 6) 4 20) He needs more energy and his heart has to beat faster to pump more blood into his body.
- 7) 3
- 8) 4 21) a) arteries
- 9) 4 veins
- 10) 1 b) Blood vessel A brings oxygenated blood to all parts of the body while B brings deoxygenated blood from all parts of the body back to the heart.
- 11) 3
- 12) 3 22) a) nose b) mouth c) windpipe
- 13) 3 d) lung e) diaphragm
- 14) 4 23) She could use a magnet and use it to attract the nails out of the water.
- 15) 2 24) It would turn chalky. The plant cannot receive sunlight due to the black box, thus it can only respire, taking in oxygen and giving out carbon dioxide.
- 25) Similarity : They form the transport system.
- Difference : The human transports system consists of veins and arteries while the plant transport system consists of phloem and xylem.