



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.

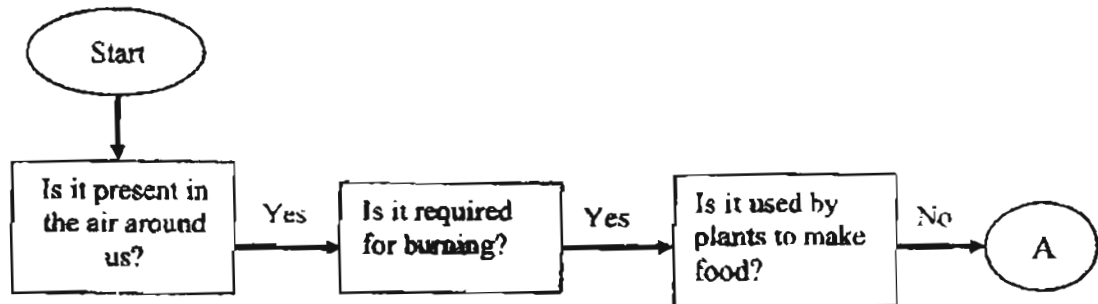
1. In the water cycle, after water is returned to Earth, it starts to _____.

- (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.

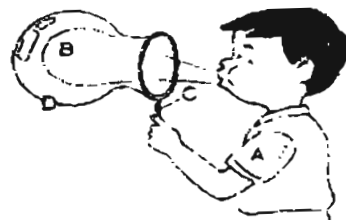
- (1) skeletal
- (2) muscular
- (3) respiratory
- (4) circulatory

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

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

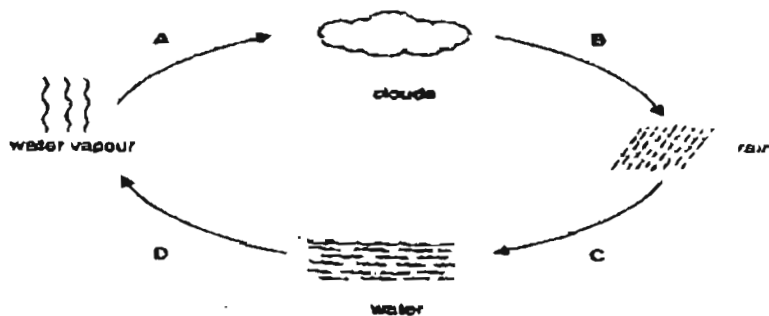
- (1) A only
- (2) A and D only
- (3) A, B and C only
- (4) A, B, C and D

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

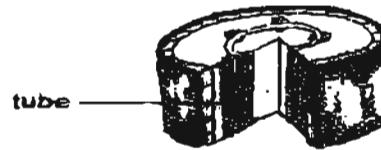
15. Which one of the following contains the least amount of oxygen?

- (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/ _ _

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BOOKLET B

13 Questions
38 marks

MARKS

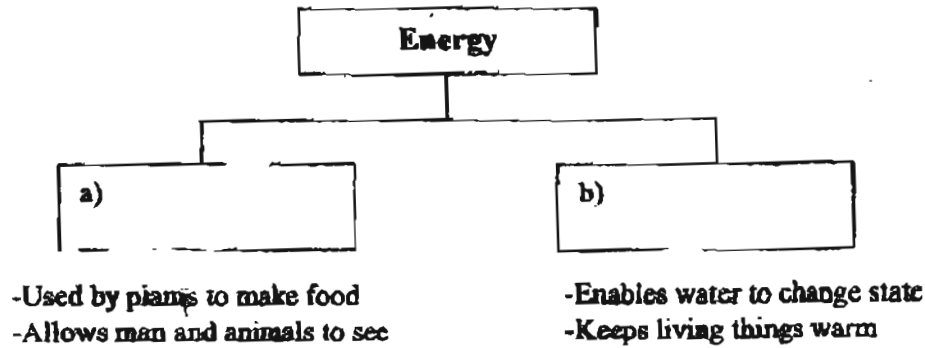
	OBTAINED	POSSIBLE
BOOKLET A		52
BOOKLET B		38
TOTAL		90

Parent's Signature : _____

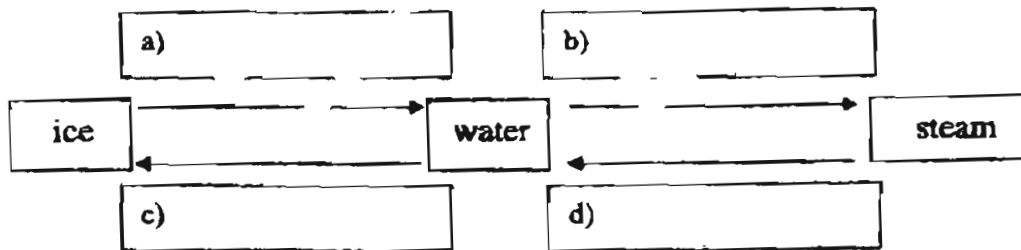
Section B: Open-ended (13 Questions = 38 marks)

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)

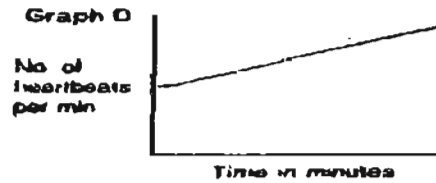
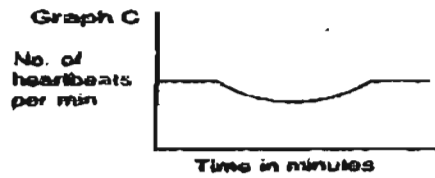
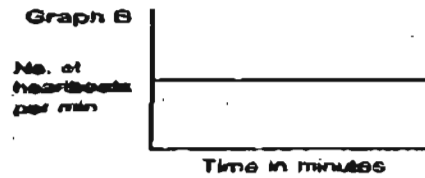
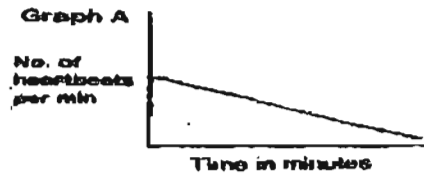
b) Where do carnivores get their energy? (1 m)

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)

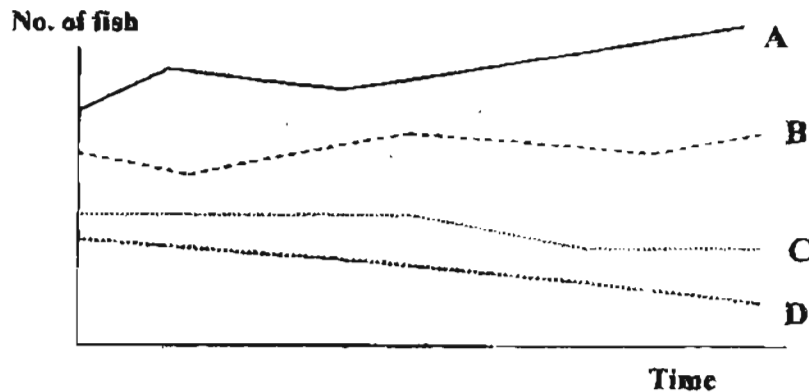
31. Study the graphs below carefully.



- 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.

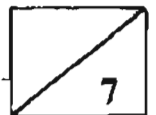


- a) Which river, A, B, C or D in the graph above is the most polluted? (1 m)

- b) Give two causes of water pollution.

(i) _____

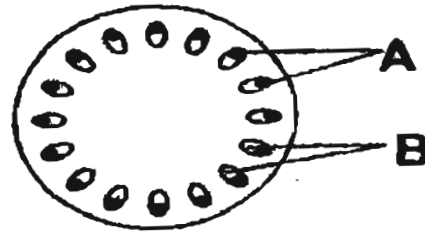
(ii) _____



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)

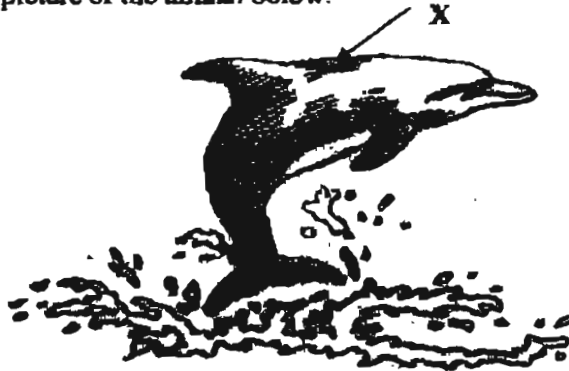
i) These tubes carry food.

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)

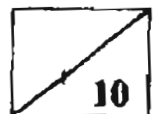
c) Name another animal that uses X for the same function? (1 m)

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

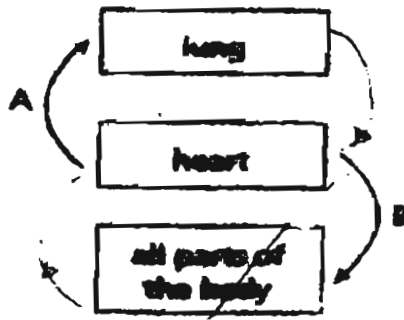
b) A reservoir is a man-made structure built to collect rainwater. Name 2 natural water bodies where rainwater is collected. (2 m)

(i) _____

(ii) _____



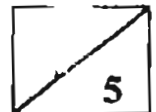
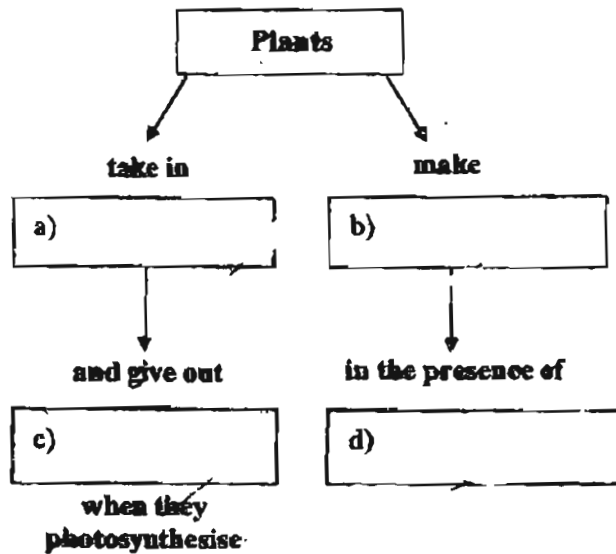
36. The diagram below shows the circulation of blood in the human body.



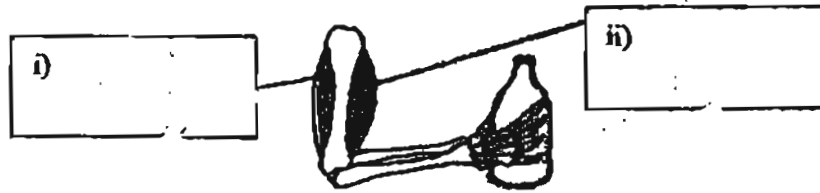
- a) Draw 2 more arrows to complete the diagram. (2 m)
- b) State one difference between the blood flowing in A and that flowing in B. (1 m)

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

oxygen	carbon dioxide	water
sunlight	chlorophyll	food.



- 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.



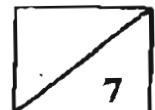
- a) Which candle will be longer after half an hour? (1 m)
-

- 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)
-



RED SWASTIKA SCHOOL
2004 CONTINUAL ASSESSMENT 2
PRIMARY 4 SCIENCE

CAZ

- 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 30) a) Heart and lungs b) Skull
- 6) 3
- 7) 4 31) a) D
 b) The heart will beat faster during exercise to
 pump more food and oxygen to the muscles.
- 8) 3 c) dead.
- 9) 4 32) a) River D
 b) i) Dumping of untreated sewage into the water.
 ii) Dumping of rubbish into the river.
- 10) 2
- 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 36) a)  b) Blood flowing in A is
 rich in carbon dioxide
 while blood flowing in
 B is rich in oxygen.
- 17) 2
- 18) 4
- 21) 3 37) a) carbon dioxide b) food c) oxygen
 d) sunlight
- 22) 4 38) a) i) relax ii) contract
- 23) 1 b) It is a hinge joint.
- 24) 3 39) a) B
- 25) 4 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.