



RED SWASTIKA SCHOOL

CAT

RED SWASTIKA SCHOOL

2004 CONTINUAL ASSESSMENT 1

SCIENCE

Name : _____ ()

Class : Primary 4/ ____

Date : 4 Mar 2004

BOOKLET A

30 Questions

60 Marks

Duration of Paper : 1 hour 30 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 : Multiple Choice Questions (MCQ) (2 marks each)

Choose the correct answer and shade the appropriate oval in the OAS provided.

1. Which of the following is not matter?

- 1) cough medicine
- 2) a piece of paper
- 3) nitrogen
- 4) smile

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2. Matter has _____.

- 1) no mass and no volume
- 2) mass and occupies space
- 3) volume
- 4) mass

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3. When Daisy blows air into into a flat balloon, it becomes inflated. This is because air _____ inside the balloon.

- 1) is occupying the space
- 2) is compressed
- 3) has no mass
- 4) has definite shape

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4. _____ refers to the amount of matter a thing has.

- 1) Volume
- 2) Shape
- 3) Size
- 4) Mass

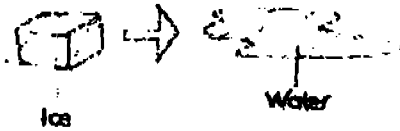
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5. Water _____ at 100°C and _____ at 0°C.

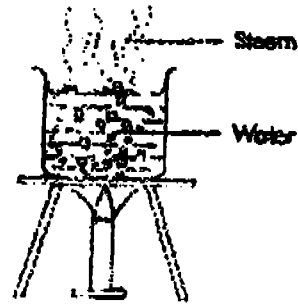
- 1) freezes; boils
- 2) boils; evaporates
- 3) evaporates; boils
- 4) boils; freezes

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6. Identify the two processes below.



Process A



Process B

- 1) Process A - boiling, Process B - freezing
- 2) Process A - melting, Process B - freezing
- 3) Process A - melting, Process B - boiling
- 4) Process A - boiling, Process B - melting

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7. Steam or water vapour _____ to become water.

- 1) condenses
- 2) melts
- 3) evaporates
- 4) freezes

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8. When water boils and changes into steam, _____.

- 1) heat is lost
- 2) heat is gained
- 3) the mass increases
- 4) the mass decreases

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9. Gopal put some ice cubes into a pot. He heated the pot until the ice cubes melted and boiled. Which of the following correctly showed the change in the states of the ice cubes?

- 1) gas → liquid → solid
- 2) solid → liquid → gas
- 3) solid → gas → liquid
- 4) liquid → solid → gas

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10. Samad wanted to dry his wet handkerchief as soon as possible. What should he do?
- 1) Fold the handkerchief into four and leave it on the table
 - 2) Fold the handkerchief into two and hang it on the back rest of his chair
 - 3) Spread the handkerchief out and put it flat on the table
 - 4) Spread the handkerchief out and hang it in front of a moving fan

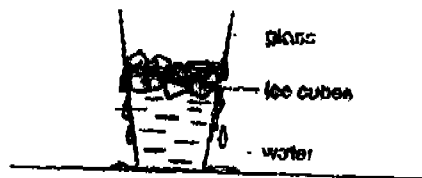
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11. The instrument for measuring mass is called the _____

- 1) thermometer
- 2) lever balance
- 3) syringe
- 4) measuring cylinder

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12. Some ice cubes are placed in a glass of water. After a few minutes, droplets of water are seen on the outside surface of the glass.



Which one of the following statements is true?

- 1) The water seeps through from the ^{glass} beaker.
- 2) The water in the glass evaporates through the ^{glass} beaker.
- 3) The ice cubes melt outside the ^{glass} beaker.
- 4) Water vapour in the air condenses on the ^{glass} beaker.

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13. The water cycle occurs because _____

- 1) the earth rotates on its axis
- 2) water is precious
- 3) water can change from one state to another
- 4) plants release water into the air

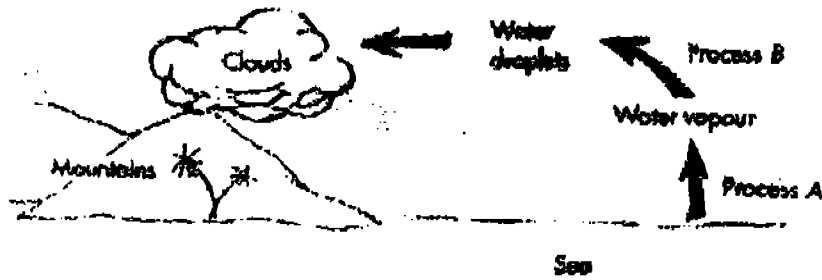
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14. Water is introduced into the air by _____

- 1) evaporation
- 2) melting
- 3) freezing
- 4) condensation

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15. Study the diagram below carefully.



Which of the following statements about the diagram above is false?

- 1) Process A is called condensation and Process B is called evaporation
- 2) Both processes take place all the time
- 3) Process A takes in heat while Process B loses heat
- 4) Process B involves cooling

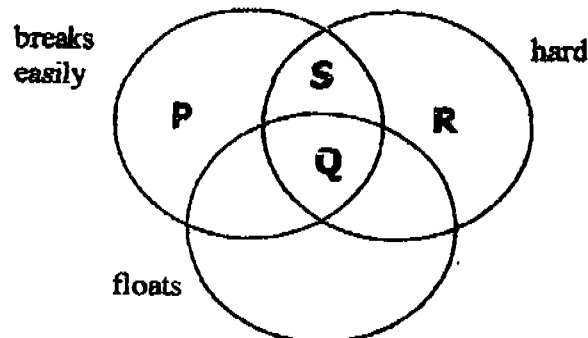
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16. Janet placed two guppies in a tank. She added a pump into the tank. However, after one week she found that the guppies had died. What could have possibly happened?

- 1) The guppies fought.
- 2) There was no air for the guppies.
- 3) There was no food for the guppies.
- 4) There was no sunlight.

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17. Study the Venn diagram carefully



Where would you put a mirror?

- 1) P
- 2) Q
- 3) R
- 4) S

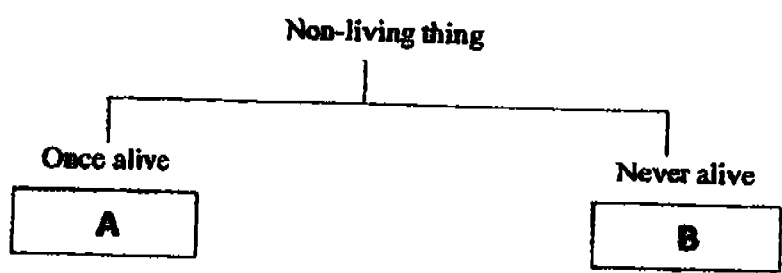
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18. Classifying means _____

- 1) to sort into groups with similar characteristics
- 2) to sort into living and non-living things
- 3) to divide into two groups
- 4) to compare different groups

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19.



Which group of items can you put into box A?

- 1) rubber ball, plastic cup, metal spoon
- 2) paper plate, plastic fork and spoon
- 3) leather sofa, rubber boots, bamboo cane
- 4) glass bottle, paper clip, cotton shirt

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20. Animals have different body coverings. Birds have feathers on their bodies and _____ on their claws:

- 1) feathers
- 2) hair
- 3) scales
- 4) shell

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21. Which two animals use their outer covering to protect themselves from enemies?

- A. snail
- B. cat
- C. tortoise
- D. hen

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

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22. Su Li found an animal near a pond. She observed that the animal has the following characteristics:
- It feeds on insects
 - It lays eggs in the water
 - It can move in more than one way
 - It has soft and moist skin

The animal which Su Li found is most likely to be a _____.

- 1) mosquito
- 2) frog
- 3) goldfish
- 4) water snail

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23. The stages of growth of a green bean plant are :

- A. adult plant
- B. seedling
- C. young plant
- D. green bean (seed)

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

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24. The table below shows how some plants are grouped.

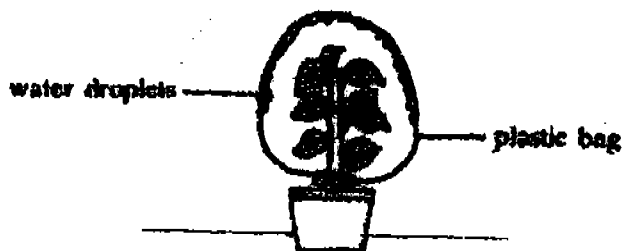
PLANTS	
Group A	Group B
Morning glory	Rose
Poison ivy	Hibiscus

Where should you classify money plant and balsam plant?

	Money plant	Balsam plant
1)	Group A	Group A
2)	Group B	Group B
3)	Group A	Group B
4)	Group B	Group A

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25. Look at the picture below.



Which statement is true?

- 1) The water droplets are produced by the root of the plant
- 2) Water vapour given out by the leaves condenses and forms the water droplets
- 3) Water enters through holes in the plastic bag
- 4) Water from the soil evaporates and condenses to form the water droplets

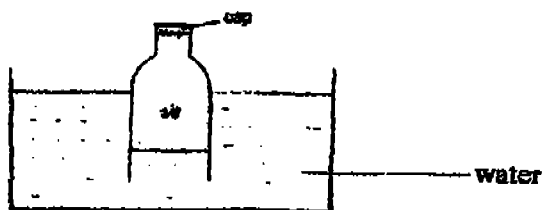
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26. When butter is heated, it melts. This is an example of matter changing from _____ state.

- 1) liquid to solid
- 2) solid to gas
- 3) liquid to gas
- 4) solid to liquid

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27. Study the diagram below carefully.



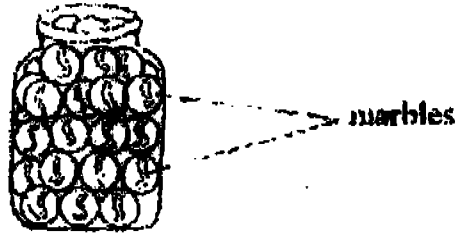
The above experiment shows that _____.

- 1) water has mass
- 2) air has mass
- 3) air is cooler than water
- 4) air occupies space

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28. The jar below is fully filled with marbles.



When Shane poured some water into the jar, none of the water overflowed. This is because _____

- 1) the water is absorbed by the marbles
- 2) the water leaked out from the jar
- 3) water took up the space between the marbles
- 4) the water is absorbed by the jar

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29. Andy put a piece of moist bread into a plastic bag and left it in the kitchen cabinet. What is likely to happen to the bread after one week?

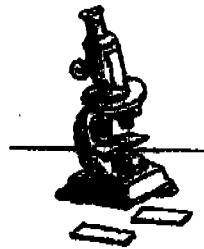
- 1) Tiny green plants would grow on the bread.
- 2) Tiny organisms called mould would grow on the bread.
- 3) The bread would dry up and harden.
- 4) The bread would reproduce.

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30.



A box of crayons



A microscope



A printer

The objects above are made of _____

- 1) a combination of materials
 - 2) naturally occurring materials
 - 3) man-made materials
 - 4) materials that come from living things only
- materials that come from animals*
only materials that come from plants

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2004 CONTINUAL EXAMINATION 1

SCIENCE

Name : _____ ()

Class : Primary 4/ _____

Date : 4 March 2004

BOOKLET B

16 Questions
40 marks

MARKS

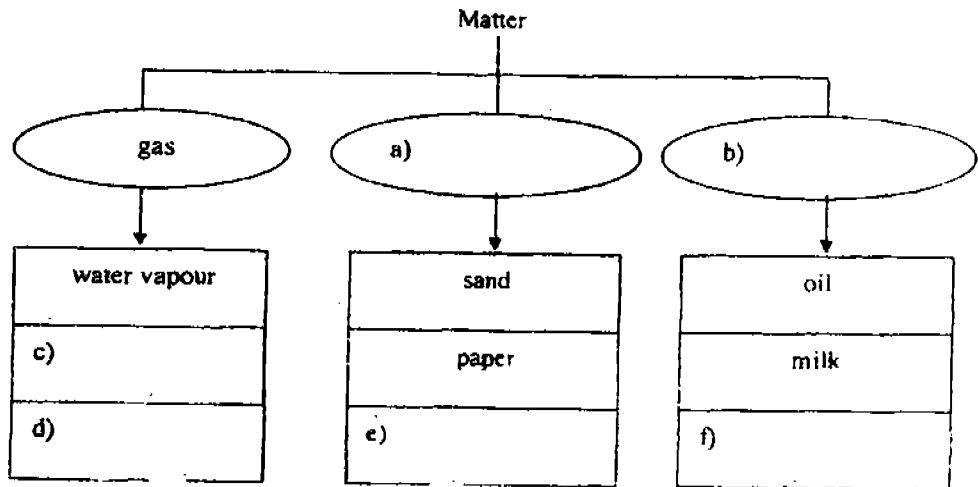
	OBTAINED	POSSIBLE
BOOKLET A		60
BOOKLET B		40
TOTAL		100

Parent's Signature : _____

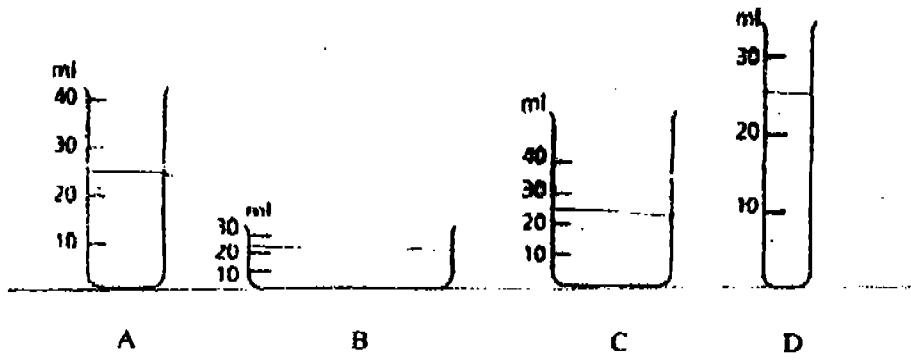
Section B: Open-ended Questions (16 Questions 40 marks)
 Answer the following questions in the space provided.

31. Complete the following classification diagram using the words in the box.
 (3 marks)

solid	hydrogen	oxygen
liquid	syrup	hair

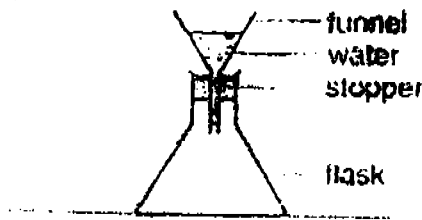


32. 25 ml of water is poured into each of the containers A, B, C and D.



- a) Draw the water level for each container. (2 marks)
- b) Based on the above activity, what can you say about the property of liquids? (1 mark)

33. Look at the diagram below.

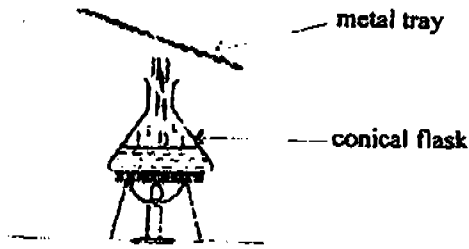


- a) Do you think the water can flow into the conical flask? (1 mark)
- b) Give a reason for your answer in (a). (1 mark)

2



34. Cindy boiled a flask of water. She then placed a metal tray above the flask as shown.



- a) What would Cindy observe on the underside of the tray after a while? (1 mark)

- b) Explain your answer in (a) above. (2 marks)

35. Fill in each blank with the correct word. (2 marks)

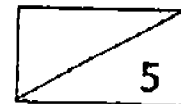
The amount of _____ in the air is called

humidity. When air is dry, humidity is _____. This makes it easier for

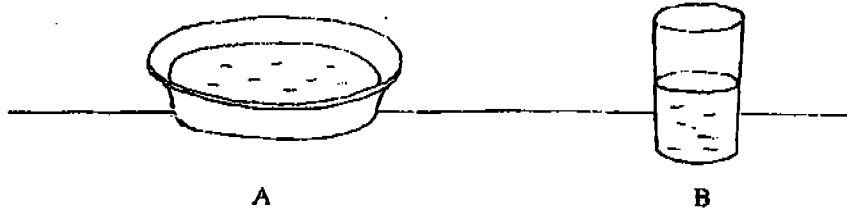
water to _____ and later _____ to

form rain.

3



36. The same amount of water is poured into each of the two containers, A and B and left under the sun for a few minutes. It was later observed that the water in container A has disappeared and the water in container B has become lesser.



- a) What process has taken place in the above activity? (1 mark)

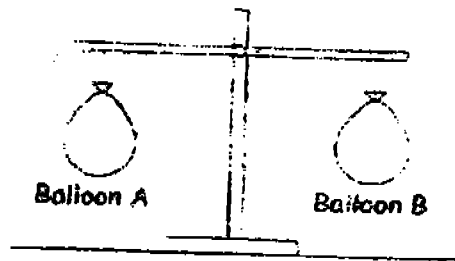
- b) Why has the water in container A dried faster than the water in container B? (1 mark)

37. Identify the changes below as "Heat Gain" or "Heat Loss". (2 marks)

Observation	Heat Gain or Heat Loss
Water freezes into ice	
Steam changes into water droplets	
Carbon dioxide changes into dry ice <i>Water boiling in a kettle</i>	
Melting of wax	



38. An experiment is set up as shown below. A needle is then pricked into balloon B, bursting it.



- a) What will you observe about the balance? (1 mark)

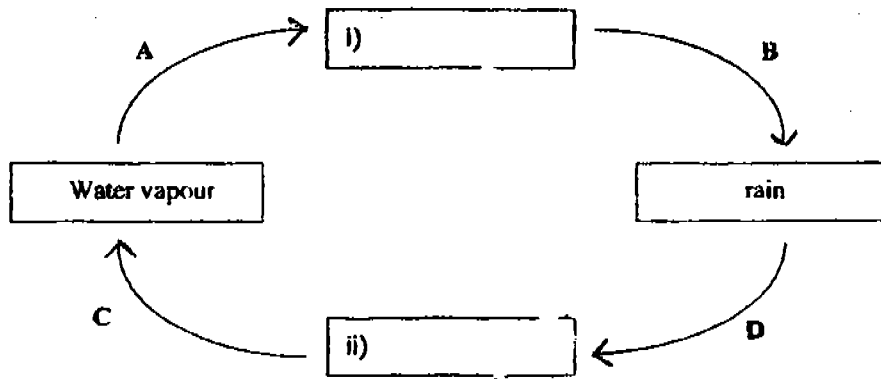
- b) What does this experiment show? (1 mark)

39. a) In the water cycle, heat is needed for water to evaporate. Where does this heat come from? (1 mark)

- b) Why is the water cycle important to man? (2 marks)

40. a) Fill in the boxes with the correct words given below. (1 mark)

steam	water	cloud
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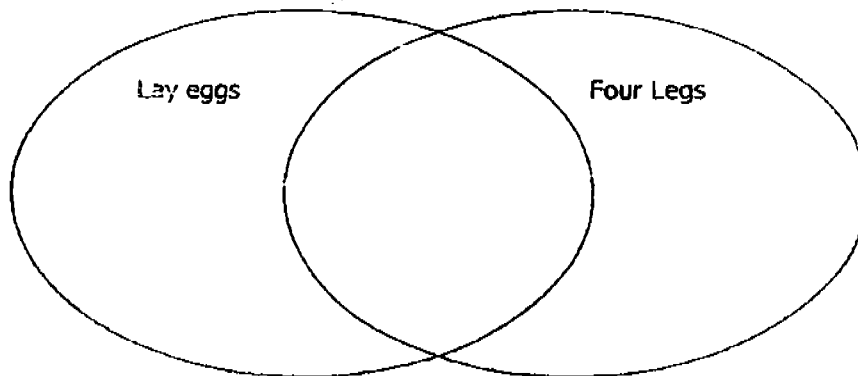
b) Which arrow, A, B, C or D, in the water cycle above represent the following processes? (1 mark)

i) evaporation : Arrow _____

ii) condensation : Arrow _____

41. Classify these animals using the Venn diagram below. (3 marks)

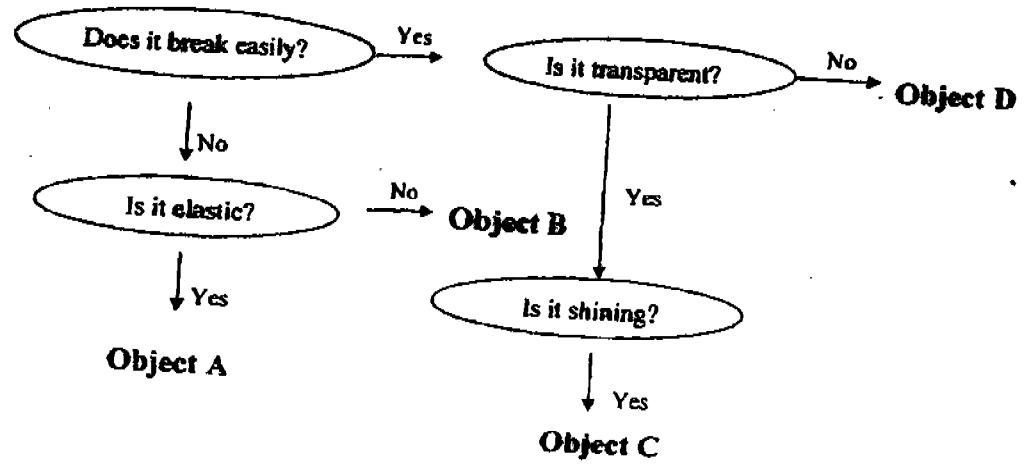
crocodile	penguin	frog
chicken	cat	cow



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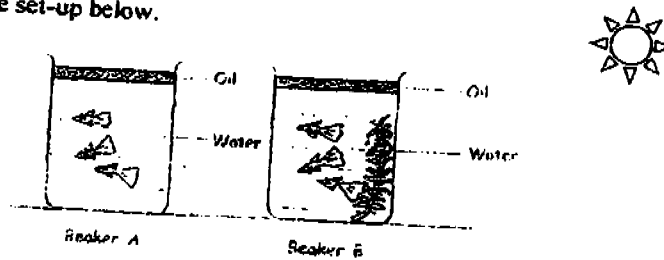
42. Study the flow chart below carefully.



Fill in the boxes below with a suitable material for the objects. (4 marks)

Object	Material
A	
B	
C	
D	

43. Study the set-up below.



a) Which beaker of fish will live longer? (1 mark)

b) Give a reason for your answer in (a). (1 mark)

44. Write down two reasons why animals need to move from one place to another. (2 marks)

i) _____

ii) _____

45. Jimmy observed some plants around his school compound. He recorded the following observations:

- The plants had strong and woody stems.
- The strong woody stems and branches of the plants were protected by an outer covering.
- Some of the plants had woody stems that divided into many branches close to the ground.

a) Based on the above observations, what kind of plants did David observe? (2 marks)

b) What is the woody outer covering on the stems of plants called? (1 mark)

46. The diagram below shows a balsam plant and mould growing on a piece of bread.



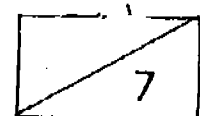
balsam plant



mould

State the difference between how a balsam plant and mould reproduce. (2 marks)

~Please Check Your Work.~



CAT

- 1) 4
2) 2
3) 1
4) 4
5) 4
6) 3
7) 1
8) 2
9) 2
10) 4
11) 2
12) 4
13) 3
14) 1
15) 1
16) 3
17) 4
18) 1
19) 3
20) 3
21) 3
22) 2
23) 3
24) 3
25) 2
26) 4
27) 4
- 28) 3
29) 2
30) 1
32) a)
-
- b) Liquid has no definite shape.
- 33) a) No.
b) Air occupies space.
- 34) a) Water droplets
b) The hot steam condenses on the cold metal tray.
- 35) water vapour
low
evaporate condense
- 36) Evaporation
b) Water in container A has a greater exposed surface area than the water in B.
- 37) Heat loss
Heat loss
Heat gain
Heat gain
- 38) a) The balance will tilt downwards at Balloon A.
b) Air has mass.
- 39) a) Heat comes from the sun.
b) The water cycle provides us a continuous supply of fresh water.
- 40) i) cloud ii) water b) i) C ii) A

- 41) Chicken Crocodile Cat
 penguin frog cow
- 42) Rubber
 wood
 glass
 clay
- 43) a) Beaker B
 b) The plant in beaker B will photosynthesize to produce oxygen for the fish.
- 44) i) To look for shelter.
 ii) To look for food.
- 45) a) Shrubs
 b) Bark
- 46) Balsam plants reproduce by seeds while mould reproduce by spores.