

CKA



VERY GOOD

Name: \_\_\_\_\_ ( )

Marks: \_\_\_\_\_ /100

Class: Primary 4 \_\_\_\_\_

Duration: 1h 30 min

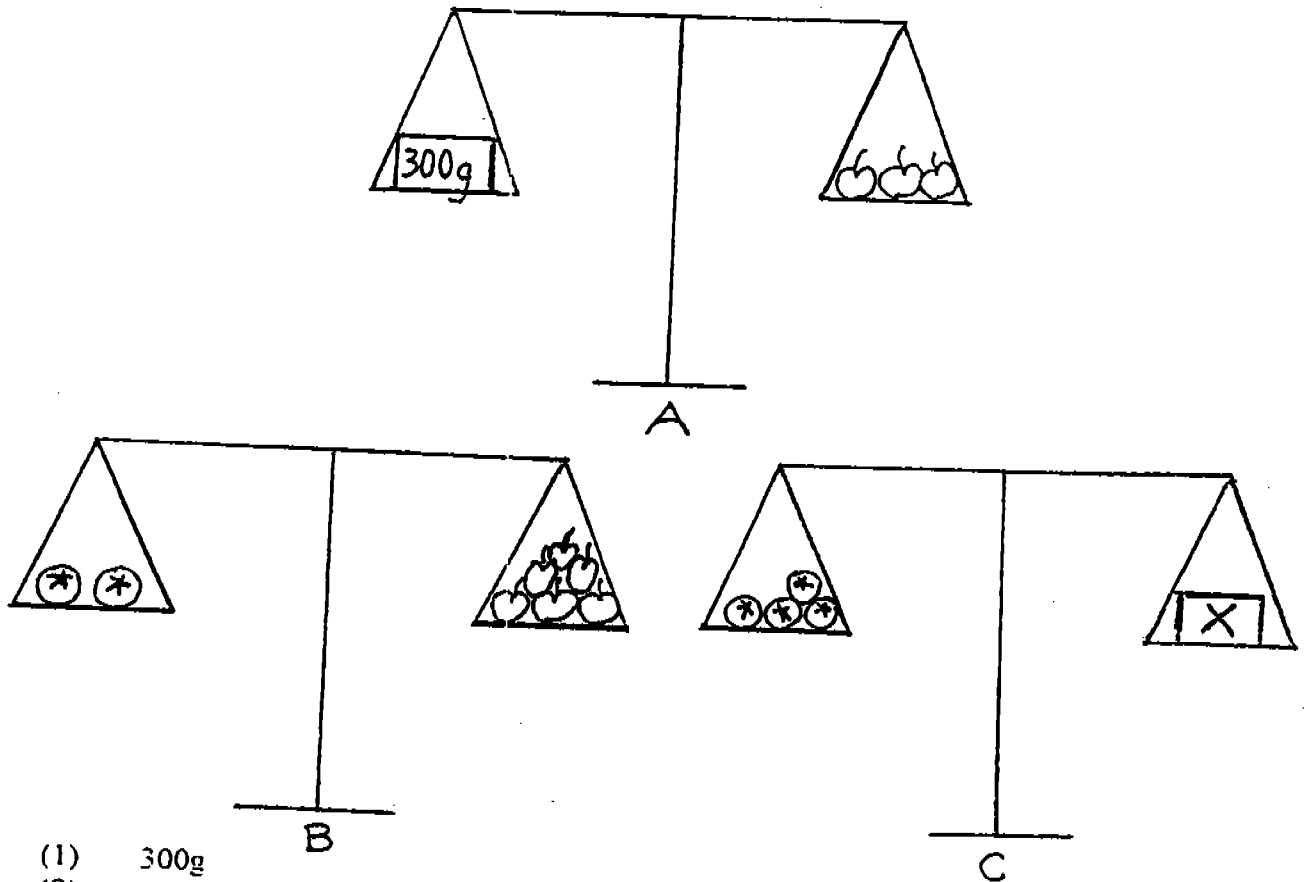
Date: 3 March 2004

Parents' Signature: \_\_\_\_\_

**SECTION A ( 30 X 2 Marks )**

**For each question from 1 to 30, four options are given. One of them is the correct answer. Shade the correct answer (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. Peter wants to find the mass of Object X, so he carries out the following experiment. Based on the following information, what is the mass of Object X?



- (1) 300g
- (2) 600g
- (3) 900g
- (4) 1200g

2. Four types of matter are described in the table below. Study the table below carefully and find out which one of them is correctly described.

Type of Matter	Definite Shape	Definite Volume	Occupies Space	Can be Compressed
Carbon Dioxide	No	No	Yes	No
Cooking Oil	No	Yes	Yes	No
Cotton Wool	No	Yes	No	Yes
Plasticine Ball	No	Yes	Yes	Yes

- (1) Carbon Dioxide
- (2) Cooking Oil
- (3) Cotton Wool
- (4) Plasticine Ball

( )

3. Mass is the amount of \_\_\_\_\_ an object contains.

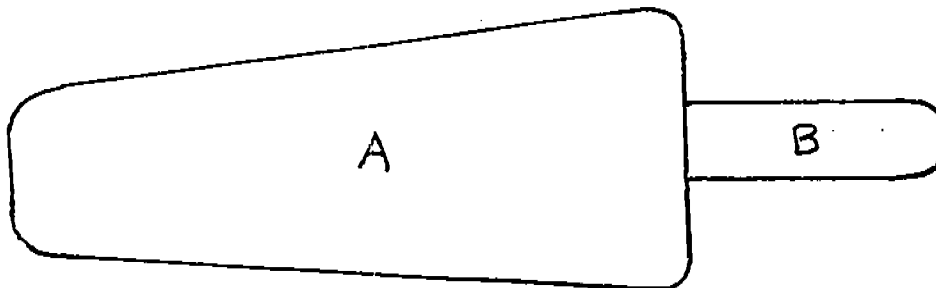
- (1) energy
- (2) space
- (3) matter
- (4) weight

( )

4. A measuring cylinder is filled with some water. If you put a lump of plasticine into the measuring cylinder, what will you observe?

- (1) The water level in the measuring cylinder will increase.
- (2) The water level in the measuring cylinder will decrease.
- (3) The water level in the measuring cylinder will remain the same.
- (4) The water level in the measuring cylinder will increase and then decrease. ( )

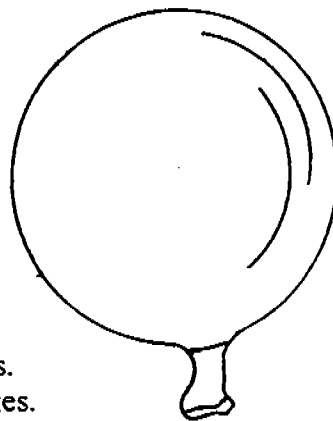
5. Look at the picture of the stick of ice cream below. Which of the following statements is true before it melts? FREE DELIVERY PLEASE CALL : JEREMY H/P : 9851 8226



- (1) Both A and B are liquids.
- (2) Both A and B are solids.
- (3) A is a solid while B is a liquid.
- (4) A is a liquid while B is a solid.

( )

6. What will happen when you prick an inflated balloon with a pin?



- A. The shape of the balloon changes.
- B. The volume of the balloon changes.
- C. The air escapes into the atmosphere.
- D. The air remains inside the balloon.

Which of the following statements is correct?

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

( )

7. In what way is ice similar to water?

- (1) Both are in the same state.
- (2) Both have mass and occupy space.
- (3) Both have a definite shape but no definite volume.
- (4) Both have a definite volume but no definite shape.

( )

8. Which one of the following has mass, a definite volume but no definite shape?

- (1) box
- (2) oxygen
- (3) vinegar
- (4) water vapour

( )

9. Which of the following statements are not true?

- A. Smoke is a matter.
- B. Heat is a matter.
- C. Steam is air in the liquid state.
- D. Air is a mixture of gases.

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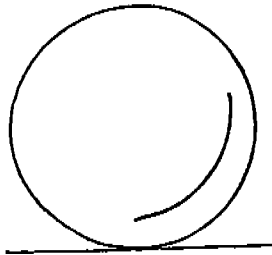
- (1) A and B only.
- (2) A and D only.
- (3) B and C only.
- (4) A, C and D.

( )

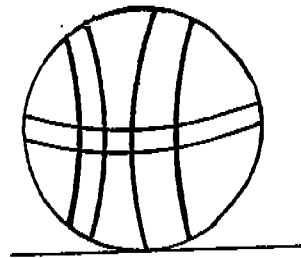
10. John has three balls of the same size as shown below. Which is the correct arrangement of the mass from the smallest to the largest?



iron ball



polystyrene ball

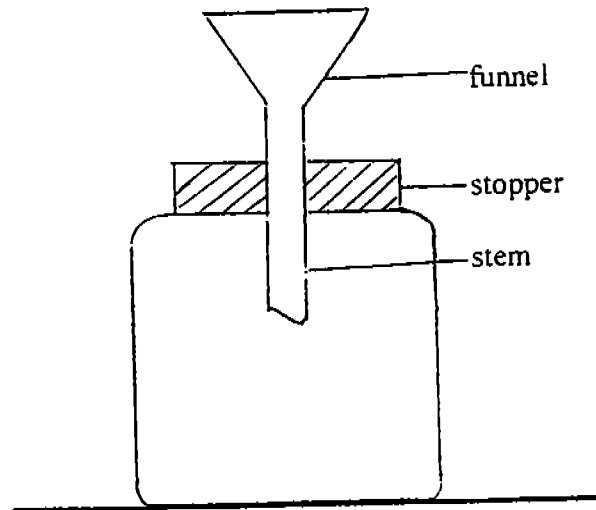


rubber ball

- (1) polystyrene ball, iron ball, rubber ball  
(2) polystyrene ball, rubber ball, iron ball  
(3) iron ball, polystyrene ball, rubber ball  
(4) rubber ball, polystyrene ball, iron ball

( )

11. The diagram below shows a bottle. A funnel is tightly fitted into a stopper that closes the mouth of the bottle.

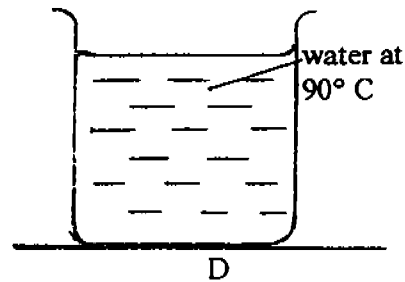
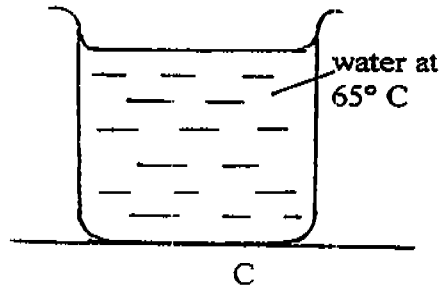
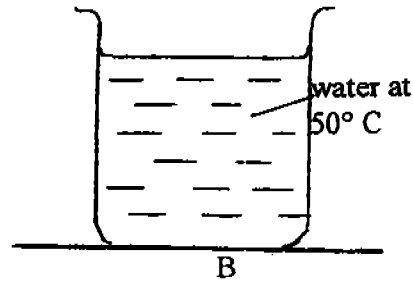
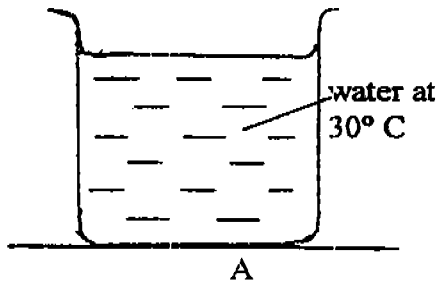


Which of the following explains why water does not flow into the bottle when it is poured into the funnel?

- (1) Water does not flow downward.  
(2) The stopper is loose so the water cannot flow into the bottle.  
(3) The stem of the funnel is too narrow for water to flow through.  
(4) There is no space in the bottle for the water to flow into because the space is occupied by air.

( )

12. Sam put  $100\text{cm}^3$  of water, each at a different temperature into 4 identical beakers as shown in the diagram below.



In which of the above beakers of water will evaporation take place?

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

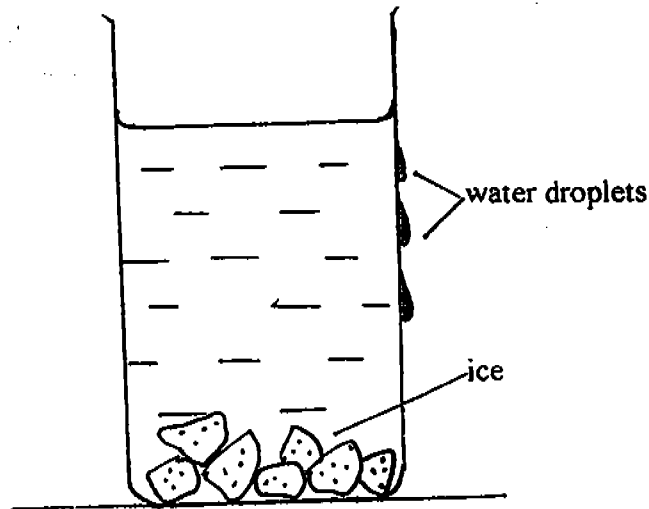
( )

13. The freezing point of water is the same as the \_\_\_\_\_.

- (1) melting point of the ice
- (2) boiling point of water
- (3) boiling point of steam
- (4) cooling point of water vapour

( )

14.

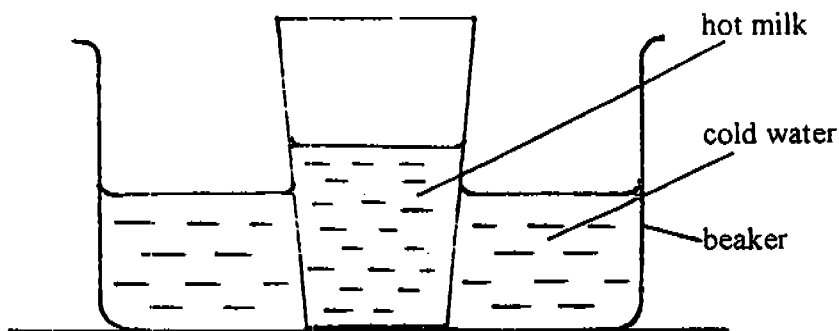


A glass containing some water and ice is placed on a table in a room. Soon, droplets of water formed on the outside of the glass because the \_\_\_\_\_.

- (1) glass cracked and the water leaked out
- (2) ice is melting
- (3) water is overflowing from the glass
- (4) water vapour is condensing on the glass

( 4 )

15.

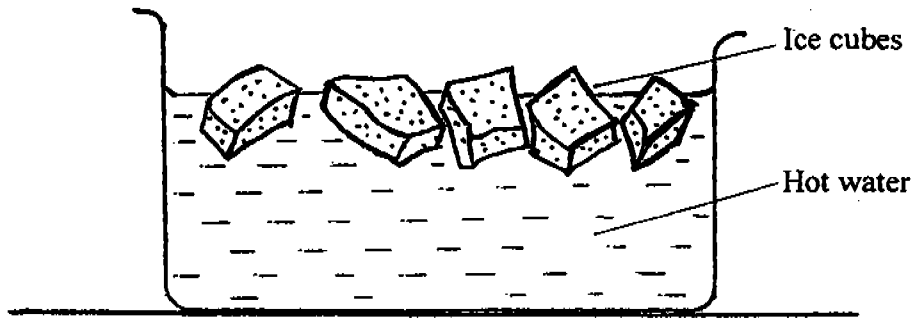


Which one of the following takes place when a glass of hot milk is placed in a beaker of cold water?

- (1) The hot milk gains heat from the cold water.
- (2) The cold water gains heat from the hot milk.
- (3) The cold water loses heat to the hot milk.
- (4) The glass absorbs more heat from the air.

( 2 )

16. Some ice cubes are dropped into a basin of hot water. Which of the following statements is / are true?



- A. The water starts freezing.  
B. The water becomes colder.  
C. The level of the water increases.  
D. The level of the water decreases.
- (1) A and B only  
(2) B and C only  
(3) B, C and D only  
(4) A, B, C and D ( )
17. Which of the following processes is affected by heat?
- A. Melting of ice  
B. Melting of wax  
C. Evaporation of water  
D. Boiling of water
- (1) A and B only  
(2) A, B and C only  
(3) A, C and D only  
(4) A, B, C and D ( )
18. Singapore is a humid country. The high humidity often makes us feel sticky and uncomfortable. The humidity is high because the air is filled with a lot of \_\_\_\_\_.
- (1) oxygen  
(2) carbon dioxide  
(3) water vapour  
(4) dust particles ( )

19. What happens when the temperature of water changes from 30° C to 10° C?

- (1) The water gains heat.
- (2) The water loses heat.
- (3) The water changes to a solid.
- (4) The mass of water increases.

( )

20. Condensation is the process by which \_\_\_\_\_.

- (1) water changes from gas to liquid
- (2) water changes from liquid to gas
- (3) water changes from liquid to solid
- (4) water changes from solid to liquid

( )

21. In which way is the cockroach nymph different from its parent?

- (1) The nymph lives in the water but the adult lives on land.
- (2) The nymph has a tail but the adult has no tail.
- (3) The nymph has no wings but the adult has two pairs of wings.
- (4) The nymph has no feelers but the adult has a pair of feelers.

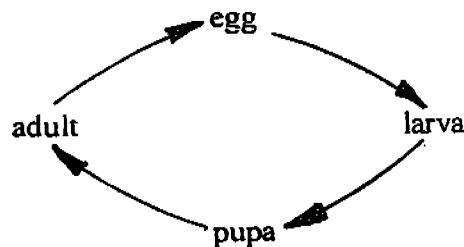
( )

22. At which stage of the life cycle of a butterfly does it stop eating?

- (1) Egg
- (2) Larva
- (3) Pupa
- (4) Adult

( )

23. Look at the diagram of the life cycle below.



Which one of the following animals has the life cycle shown above?

- (1) beetle
- (2) frog
- (3) chicken
- (4) cockroach

( )



24. When an animal sheds its old skin and grows a new one, that process is called \_\_\_\_\_.

- (1) fertilising
- (2) hatching
- (3) moulting
- (4) splitting

( )

25. Living things reproduce to make sure that \_\_\_\_\_.

- (1) their own kind go on living
- (2) their young look like them
- (3) they can grow into adults before they die
- (4) they pass through different stages in their growth

( )

26. Which of the following baby animals look different from their parents?

- A. Cockroach
- B. Chicken
- C. Butterfly
- D. Frog

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

( )

27. A developing chick in an egg gets its food from the egg \_\_\_\_\_.

- (1) shell and yolk
- (2) yolk and white
- (3) white and shell
- (4) membrane and yolk

( )

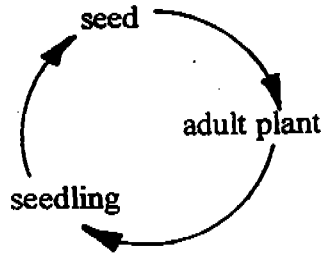
28. At first, the seedling gets its food from the \_\_\_\_\_.

- (1) leaves
- (2) fruit
- (3) seed
- (4) flower

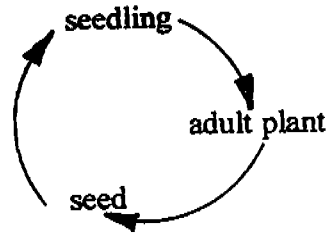
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29. Which one of the following shows the life cycle of a plant correctly?

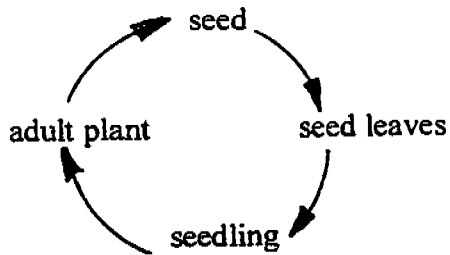
(1)



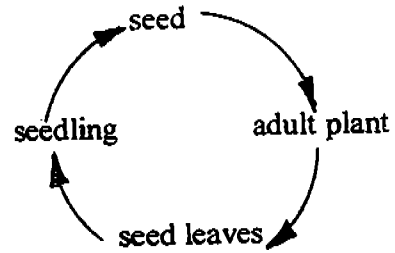
(2)



(3)



(4)



( )

30. Some plants can grow from other plant parts. An African Violet plant can be grown from its \_\_\_\_\_.

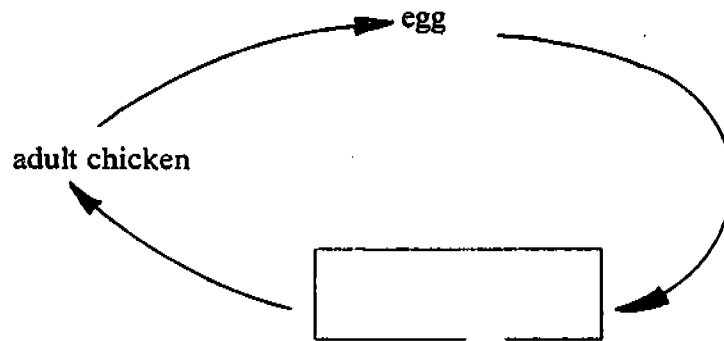
- (1) root
- (2) stem
- (3) flower
- (4) leaf

( )

**SECTION B ( 10 X 2 Marks )**

**Fill in the blanks with suitable answers.**

31. A solid has a definite \_\_\_\_\_ and volume and cannot be compressed.
32. A \_\_\_\_\_ has no definite shape and no definite volume.
33. A school bag feels \_\_\_\_\_ than a pencil case because it has a bigger mass.
34. Water can change from one state to another. In the freezer, water \_\_\_\_\_ heat and changes from a liquid to a solid.
35. The temperature of water \_\_\_\_\_ when it gains heat.
36. Wax and butter \_\_\_\_\_ to form liquids.
37. Fill in the missing stage in the life cycle of a chicken.

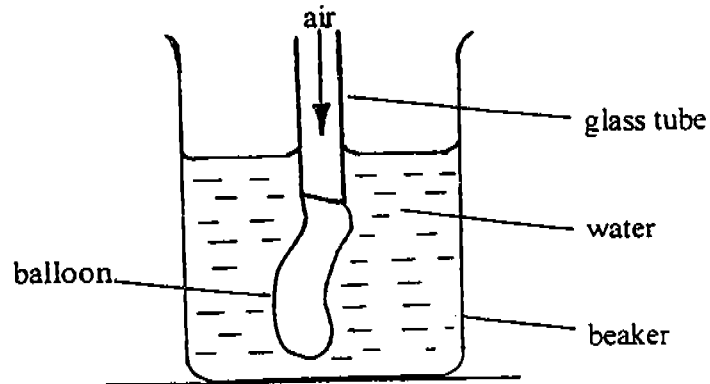


38. A butterfly flies from plant to plant to feed on the \_\_\_\_\_ of flowers.
39. A young plant is called a \_\_\_\_\_.
40. After the eggs are laid, the hen usually sits on them to provide \_\_\_\_\_.

**SECTION C ( 20 Marks )**

Answer the following questions correctly in the spaces provided.

41. Mei Lin fixed a balloon over a glass tube and submerged it in a beaker of water as shown in the diagram below.  
She then blew air into the glass tube.

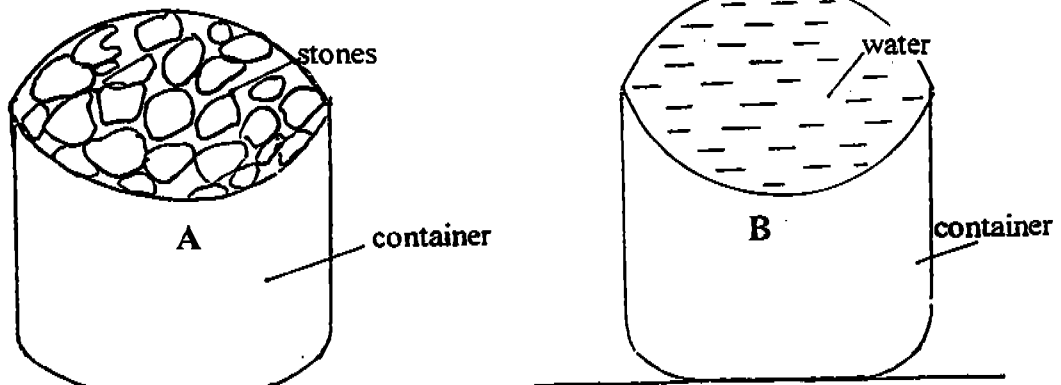


41. What 2 changes are observed when air is blown into it?

(a) \_\_\_\_\_ [ 2 m ]

(b) \_\_\_\_\_ [ 2m ]

- 42.



- (a) Container A is filled with stones. What are the states of matter in Container A?  
\_\_\_\_\_ [ 2 m ]

(b) Container B is filled with water. When the contents of Container B are poured up to the brim of Container A, what are the states of matter in Container A now?

[ 2 m ]

43. Alan heated a beaker of water. He made a record of the temperature of water at intervals of 3 minutes as shown in the table below.

Time	0	3 min	6 min	9 min	12 min	15 min
Temperature	28° C	30° C	60° C	80° C	100° C	?

(a) What is the temperature of the water after 15 minutes?

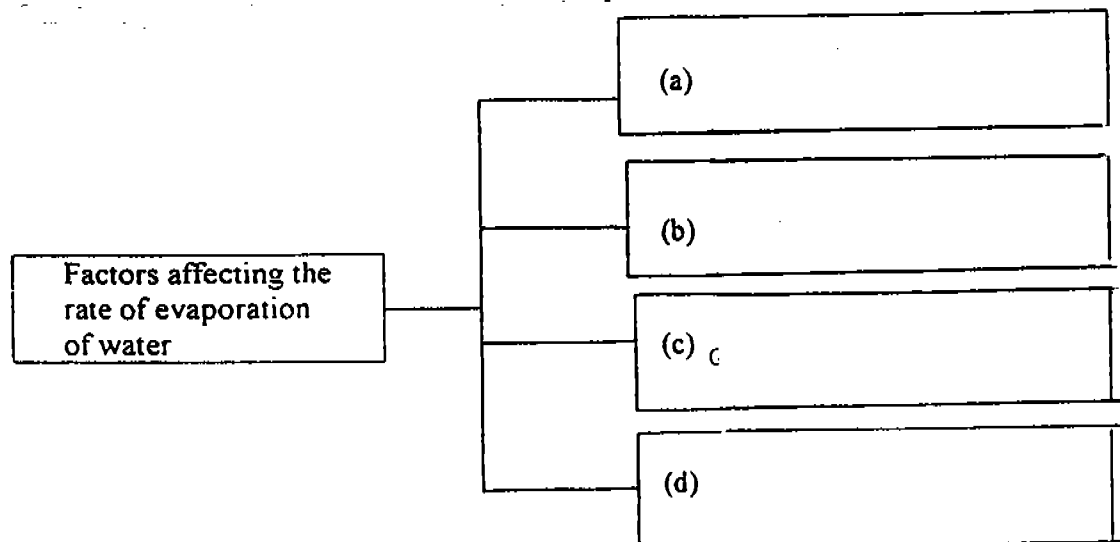
[ 1 m ]

(b) Give a reason for your answer in (i)

[ 2 m ]

44. What are the factors that affect the rate of evaporation of water?

[ 4m ]



45. Suling has a jar of green beans in the living room. After several weeks, Suling wondered why the green beans did not germinate. Her friend, Mary, told her that she must make sure that her green beans has all the three necessary conditions. They are

- (i) \_\_\_\_\_ [ 1m ]
- (ii) \_\_\_\_\_ [ 1m ]
- (iii) \_\_\_\_\_ [ 1m ]

46. Arrange the statements by numbering them from 1 to 5 to show the growth of a soya bean seed. [ 2m ]

- \* The root appears from the seed.
- \* The plant starts to make its own food.
- \* Flowers develop.
- \* The first shoot appears from the seed.
- \* Fruits form from the flowers.


End of Paper  
Please check your work carefully.

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
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		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  LIKE THIS:



- 1  1  2  3  4
- 2  1  2  3  4
- 3  1  2  3  4
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