



CA2

# AI TONG SCHOOL

## 2004 CONTINUAL ASSESSMENT 2

### PRIMARY FOUR SCIENCE

**DURATION : 1 h 30 min**

**DATE: 26 August 2004**

### INSTRUCTIONS

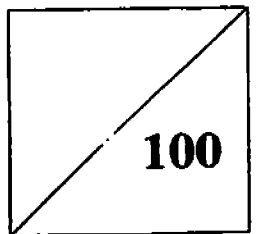
**Do not open the booklet until you are told to do so.  
Follow all instructions.  
Answer all questions.**

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

**Marks :**

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

**Snappy Work**



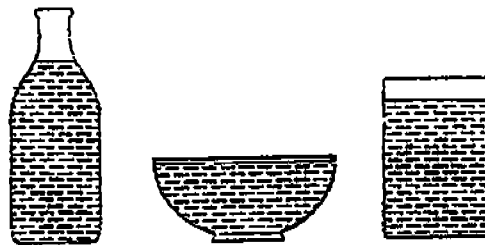
**Parent's Signature :** \_\_\_\_\_

**Date :** \_\_\_\_\_

**Section A (30 x 2 marks)**

**Choose the correct answer and shade its number (1,2, 3 or 4) on the ovals in the OAS provided.**

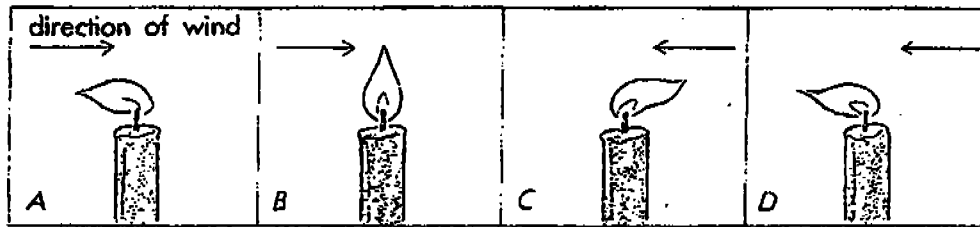
1. Solids, liquids and gases are called matter because
  - 1) they take up space but do not have mass.
  - 2) they have a definite shape and volume.
  - 3) they have weight and take up space.
  - 4) they have a definite volume but no definite shape.
  
2. Which one of the following has a definite shape and volume?
  - 1) Air
  - 2) Rain drop
  - 3) Alcohol
  - 4) Ruler
  
3. Allan poured 450ml of water into each of the containers below.



From the diagram, we know that water has \_\_\_\_\_.

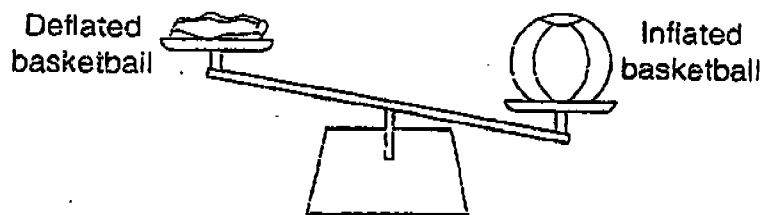
- 1) a definite weight
- 2) no definite height
- 3) no definite shape
- 4) no definite volume

4. Which one of the drawings below is correct?



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

5.



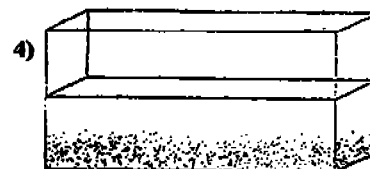
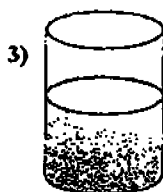
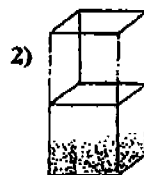
The diagram shows that \_\_\_\_\_.

- 1) the deflated basketball is heavier than the inflated basketball
- 2) the deflated basketball is as heavy as the inflated basketball
- 3) the deflated basketball is lighter than the inflated basketball
- 4) the deflated basketball has no weight

6. When some sand is poured into a container of water, the sand will sink to the bottom of the container. When the same volume of oil is poured into the same container of water, the oil will float. Which of the following is the most appropriate conclusion drawn from this experiment? \*

- 1) Both the solid and liquid take up space.
- 2) Liquids are lighter than solids.
- 3) Solids sink while liquids float on water.
- 4) Oil is lighter than water.

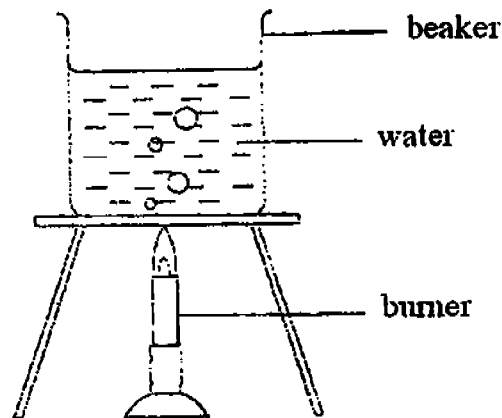
7. Equal amount of water is poured into four uncovered containers. The four containers are left on a table in a sunny corridor for three days. From which container do you think the water will evaporate fastest?



8. Water can exist in all three states. Which one of the following is in the same state as water vapour?

- 1) Coconut water
- 2) Ice-blended tea
- 3) Ice-cream
- 4) Steam

9. In the following diagram, a beaker of water is being boiled.



The bubbles are likely to contain \_\_\_\_\_.

- |                   |                 |
|-------------------|-----------------|
| 1) water droplets | 2) water vapour |
| 3) air            | 4) mist         |
10. Peter filled a glass bottle with water to its brim, screwed its cap tightly and left it in the freezer overnight. What do you think would happen to the bottle the next morning?
- 1) The bottle would crack. ✓
  - 2) The bottle would expand. <
  - 3) Ice would bulge out from the mouth of the bottle.
  - 4) There would be a decrease in the amount of water in the bottle.

11. Which of the following statements are true?

(A) Most of the water found on this planet is salty.

(B) The only source of water are the lakes.

(C) Living things in the desert have special ways to store water.

1) A and B only

2) B and C only

3) A and C only

4) A, B and C

12. An oil spill can cause harm to the environment. Which of the following are the results of an oil spill?

(A) There will be mudslides along the coastal areas.

(B) Aquatic organisms die from lack of oxygen.

(C) Sea mammals no longer can swim or float as their fur clump together.

1) A and B only

2) B and C only

3) A and C only

4) A, B and C

13. Mist, fog, dew, rain and water droplets are examples of \_\_\_\_\_.

1) different forms of water

2) water in the liquid state

3) water in the solid state

4) water in the gaseous state

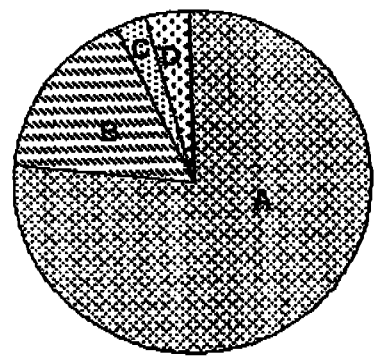
14. When a piece of ice cube gains heat, it \_\_\_\_\_.

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

15. Which one of the following cannot be compressed?

- 1) Water vapour
- 2) Oxygen
- 3) Dew
- 4) Carbon dioxide

16. The pie chart shows the composition of air around us.



A is like to be \_\_\_\_\_  
likely

- 1) carbon dioxide
- 2) nitrogen
- 3) oxygen
- 4) water vapour

17. Which of the following activities cause the heart to beat faster?

- A. Taking a slow walk in the garden
- B. Going on a frightening roller-coaster ride
- C. Doing an hour of skipping
- D. Taking a nap in the afternoon

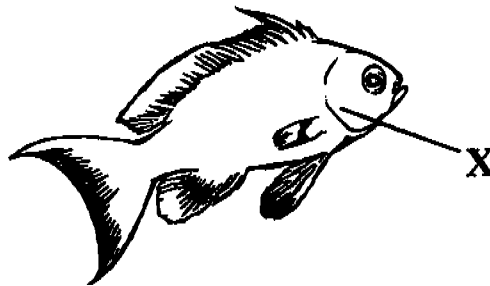
- 1) A and D only
- 2) B and C only
- 3) A, B and C only
- 4) A, C and D only

18. Which of the following occurs when we exercise?

- A. The heart beats faster.
- B. Our body needs more carbon dioxide.
- C. The body temperature increases.
- D. Breathing rate increases.

- 1) A, C and D only
- 2) A, B and D only
- 3) B, C and D only
- 4) All of the above

19.



The picture above shows a fish. A breathing organ is found under the part labelled X.  
What is the breathing organ?

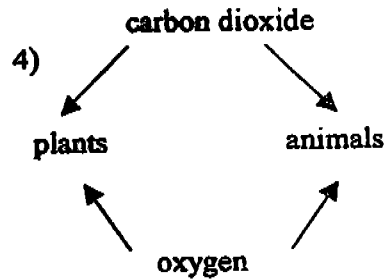
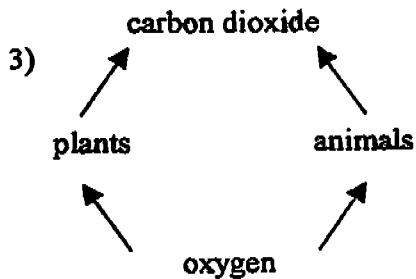
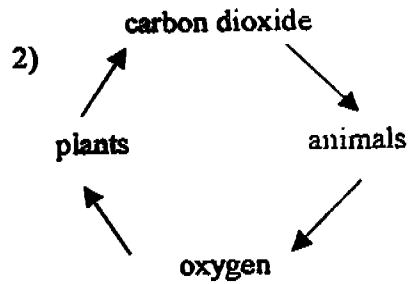
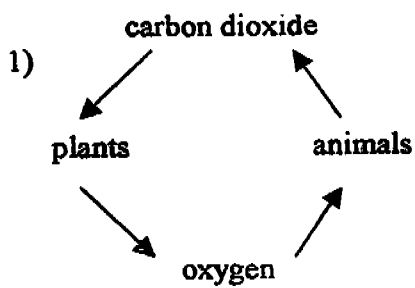
- 1) scales
- 2) gills
- 3) gill covers
- 4) fins



20. Which one of the following statements is true?

- 1) When one breathes in, the size of the chest increases.
- 2) Our heart tilts slightly towards the right side of our body.
- 3) The air we breathe in contains only oxygen.
- 4) Our blood absorbs carbon dioxide.

21. Which one of the following diagrams shows correctly the exchange of gases that take place in plants and animals all the time? \*



22. Which of the following substances can be transported by our blood?

- A. digested food
- B. water
- C. oxygen
- D. carbon dioxide
- E. waste materials

- 1) A, B and C only
- 2) A, B and E only
- 3) A, B, C and D only
- 4) All of the above

23. The xylem tubes help plants by transporting \_\_\_\_\_.

- A. water to the leaves to make food
- B. food made in the leaves to the other parts of the plant
- C. mineral salts from the soil to all the parts of the plant
- D. carbon dioxide from the leaves to other parts of the plant

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

24. Digestive juices are necessary for digestion of food. They can be found in the \_\_\_\_\_.

- A. mouth
- B. gullet
- C. stomach
- D. small intestine
- E. large intestine

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

25. Which of the following skeletons belong to a giraffe?

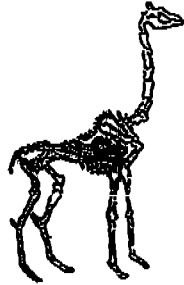
1)



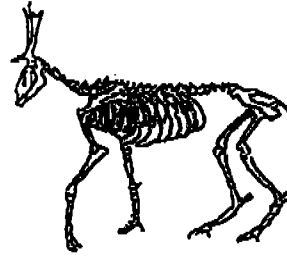
2)



3)



4)



26. Our skin is an important part of our body. It is actually an organ that helps by telling us

- \_\_\_\_\_
- A. about the texture of objects
  - B. whether the object is hot or cold
  - C. whether some tea is sweet
  - D. the exact temperature of water

- 1) A and B only
- 3) C and D only

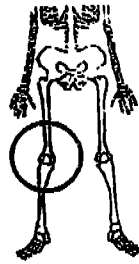
- 2) B and C only
- 4) All of the above

27. In our body, there are several different organs working together to carry out a particular job. These organs are linked together to form a/an \_\_\_\_\_

- 1) cycle
- 3) system

- 2) organism
- 4) interaction

28. The diagram shows part of a human skeleton.



The joint that is circled is the \_\_\_\_\_ joint.

- |             |                    |
|-------------|--------------------|
| 1) hinge    | 2) shoulder        |
| 3) skeletal | 4) ball and socket |

29. The food we eat \_\_\_\_\_.

- A. gives us energy to move and grow
- B. keeps our bodies warm
- C. is broken down into simple substances
- D. is completely digested in the large intestine

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

30. Study the table below carefully about the sense organs W, X, Y and Z and how they contributed to Susan's awareness of her surroundings.

Sense Organ	W	X	Y	Z
Tells her that the roses are red.	✓	✗	✗	✗
Tells her that the thorns on the rose plant are sharp.	✗	✓	✗	✗
Tells the scent of the roses.	✗	✗	✓	✗
Tells that her dog is behind her.	✗	✗	✗	✓

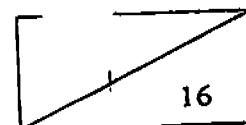
Which one of the following lists shows the sense organs she used?

	W	X	Y	Z
1)	Skin	Eyes	Nose	Ears
2)	Skin	Eyes	Ears	Eyes
3)	Eyes	Skin	Nose	Ears
4)	Ears	Tongue	Skin	Nose

**Section B (10 x 2 marks)**

Fill in the blanks with suitable answers. More than one word can be used in each blank.

31. A \_\_\_\_\_ solid does not allow water to get into it, for example, plastic, metals, wax and glass.
32. A liquid has a definite \_\_\_\_\_. It cannot be compressed.
33. The \_\_\_\_\_ is the continuous movement of water from the Earth to the sky and from the sky to the Earth.
34. We need to \_\_\_\_\_ water by using water carefully and wisely.
35. \_\_\_\_\_ is the solid state of water.
36. Under normal conditions, the highest temperature that can be reached by water in its liquid state is \_\_\_\_\_ °C.
37. \_\_\_\_\_ is the process whereby living things take in oxygen in order to break down digested food to produce energy.
38. \_\_\_\_\_ are blood vessels that carry oxygen-rich blood from the heart to all parts of the body.



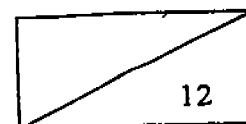
39. Without \_\_\_\_\_, messages from sense organs will not be able to reach the brain.
40. While eating too fast, Peter started choking because the food had accidentally gone from her mouth into the \_\_\_\_\_ his \_\_\_\_\_.

**Section C (5 x 4 marks)**  
**Answer all the questions.**

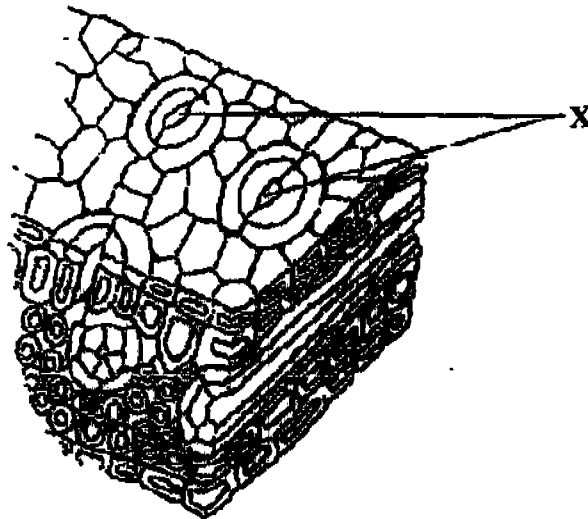
41. Write down "T" if the statement is true and "F" if the statement is false (4 marks)
- (a) Liquids have mass but have no definite volume. ( )
- (b) Water always flows from a lower level to a higher level. ( )
- (c) The higher the temperature, the faster the rate of evaporation. ( )
- (d) A gas has no definite volume and can be compressed. ( )
42. Place the following items under the correct headings in the classification table. (4 marks)

Glass	Olive oil	Orange juice	Sand
Steam	Alcohol	Sponge	Oxygen

MATTER		
SOLID	LIQUID	GAS



43. Study the diagram below.



a) What are the tiny openings marked X known as? (1 mark)

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b) What is the function of these openings? (1 mark)

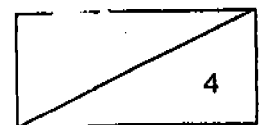
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c) On which part of the leaf are they usually found? (1 mark)

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d) Why are they found at that part of the leaf? (1 mark)

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44. The pictures show a 'skull' and a 'ribcage'

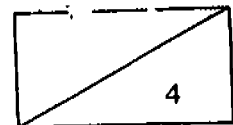


How are they different in terms of


appearance ?  
( 2 marks)

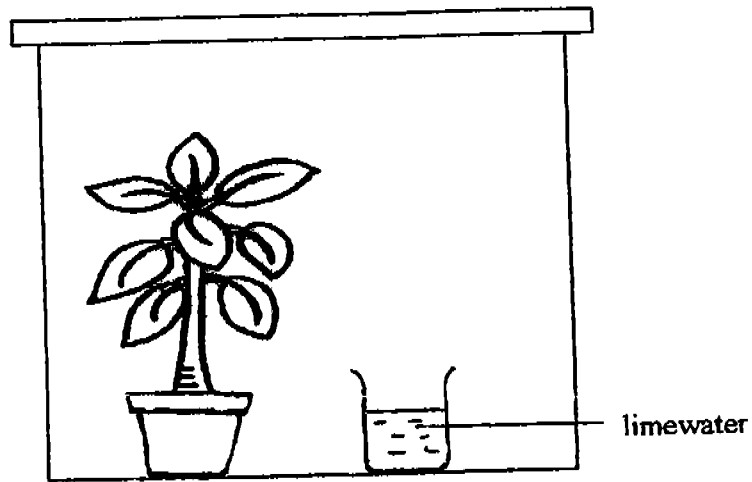


function ?  
( 2 marks)



45. A pupil set up an experiment as shown in the diagram below. He placed the whole set-up in a dark cupboard.



- a) What process is the plant undergoing? (1 mark)

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- b) What change would you see in the limewater? (1 mark)

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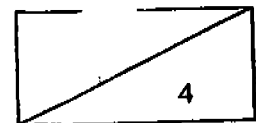
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- c) Why would you see this change? (2 marks)

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NAME : \_\_\_\_\_

DATE : \_\_\_\_\_

CLASS : \_\_\_\_\_

SUBJECT: \_\_\_\_\_

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



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AI TONG SCHOOL  
2004 CONTINUAL ASSESSMENT 2  
PRIMARY FOUR SCIENCE

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- |       |   |  |
|-------|---|--|
| 1) 3  | 28) 1   | 45) a) Respiration   |
| 2) 4  | 29) 2   | b) The limewater would turn chalky.  |
| 3) 3  | 30) 3   | c) The plant next to it cannot make food without sunlight. Hence, it is taking in oxygen and giving out carbon dioxide. At the same time, carbon dioxide given out by the plant is interacting with the limewater. |
| 4) 4  | 31) waterproof  |  |
| 5) 2  | 32) volume  |  |
| 6) 4  | 33) water cycle   |  |
| 7) 4  | 34) conserve  |  |
| 8) 4  | 35) Ice   |  |
| 9) 3  | 36) 100°C   |  |
| 10) 1 | 37) Respiration   |  |
| 11) 3 | 38) Arteries  |  |
| 12) 2 | 39) nerves  |  |
| 13) 2 | 40) windpipe  |  |
| 14) 1 | 41) a) F  |  |
| 15) 3 | b) F  |  |
| 16) 2 | c) T  |  |
| 17) 2 | d) T  |  |
| 18) 1 | 42) Glass   | Olive oil  |
| 19) 2 | Sand  | Orange Juice   |
| 20) 1 | Sponge  | Alcohol  |
| 21) 3 | 43) a) Stomata  |  |
| 22) 4 | b) They allow the exchange of gases in the plant.                 |  |
| 23) 2 | c) Underside of the leaf.   |  |
| 24) 4 | d) It is to reduce the rate of evaporation under direct sunlight. |  |
| 25) 3 | 44) It is formed by curved bones                                  | The bones are joined together to form a helmet.  |
| 26) 1 |   |  |
| 27) 3 | Protect the heart, lungs and give our                             | Protect the brain and our head its shape.  |