

2007 CONTINUAL ASSESSMENT (2) PRIMARY FOUR SCIENCE

DURATION: 1hr 45 min

DATE: 30th August 2007

INSTRUCTIONS

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

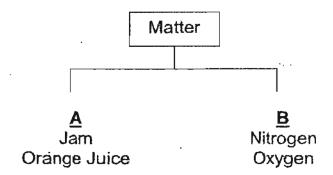
Answer all questions.

Name:()
Class: Primary	
Parent's Signature :	100
Date:	

Section A (30 X 2 marks)

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

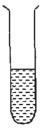
1. Mary classified 4 objects into two groups using the chart below.



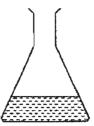
Which of the following could be the most suitable headings for Group A and B?

	Α	B.
(1)	Has no definite shape	Has a definite shape
(2)	Can be compressed	Cannot be compressed
(3)	Has a definite volume	Has no definite volume
(4)	Has no definite volume	Has a definite volume

2. A boy pours the water from the test tube into the conical flask and then into the round-bottomed flask.



Test tube



Conical flask

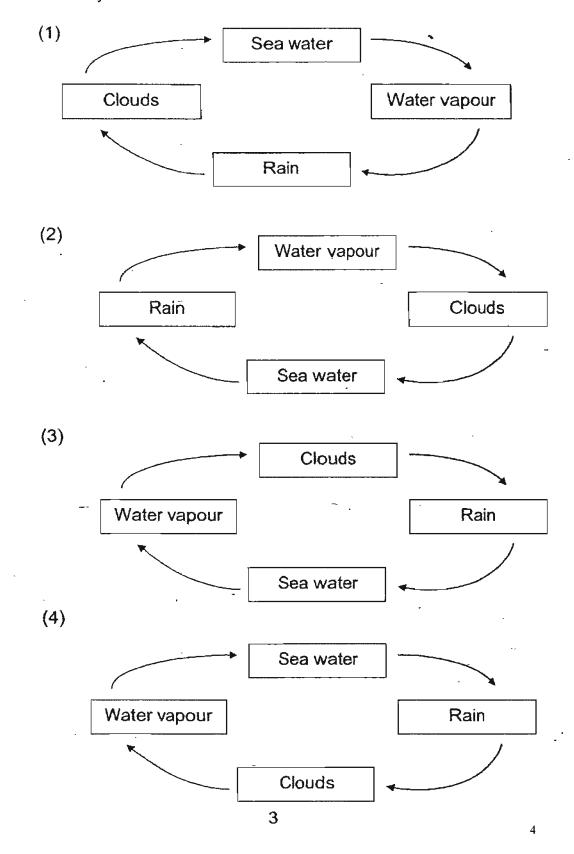


Round bottomed flask

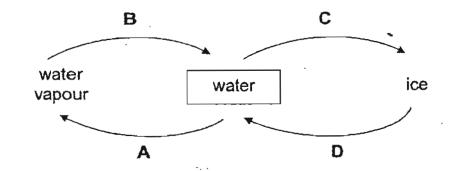
What does he want to show in his activity?

- A: Water has mass.
- B: Water has no definite shape.
- C: Water has no definite volume.
- D: Water takes the shape of its container.
- (1) A and D
- (2) B and C
- (3) B and D
- (4) _A, B and D

3. Which one of the following shows the correct sequence of the water cycle?



4. The diagram shows the states of water and some processes.



Which one of the following set of arrows shows the correct processes represented by the arrows?

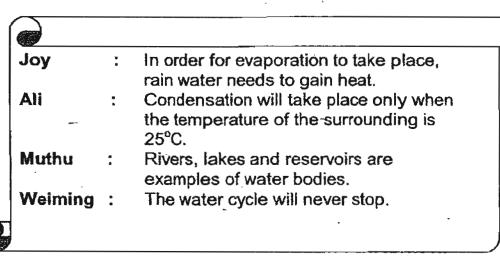
	Α	В	С	D
(1)	Condensation	Evaporation	Melting	Freezing
(2)	Evaporation	Condensation	Freezing	Melting
(3)	Melting	Boiling	Evaporation	Freezing
(4)	Boiling	Evaporation	Freezing	Melting

- 5. Which one of the following takes place when water gains heat?
 - (1) Water freezes.
 - (2) Water boils.
 - (3) Water vapour condenses.
 - (4) Water droplets gather to become clouds.

6. Joe wanted to find out if the rate of evaporation of water would be affected by the humidity of the surrounding. He had 4 different set-ups for this experiment. Which 2 set-ups should he choose?

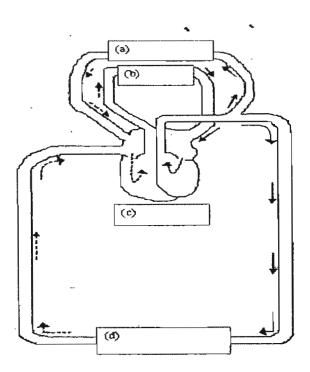
Set-up	Amount of a water (ml)	Temperature (0°C)	Humidity (%)
Α	100 ml	29	70 %
В	200 ml	29	70 %
С	100 ml	29	50 %
D	. 200 ml	29	50 %

- (1) Set-ups A and C
- (2) Set-ups B and C
- (3) Set-ups C and D
- (4) Set-ups A and D
- 7. 4 children were discussing their "Water Cycle" project. Each wrote a statement about it. Whose statement should not be included in their report?



- (1) Joy
- (2) Ali
- (3) Muthu
- (4) Weiming

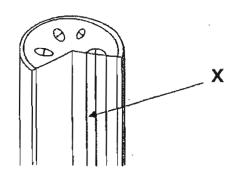
8. The diagram below shows the circulatory system of a human body. Choose the correct label from the table below.



	(a)	(b)	(c)	(d)
(1)	upper body	heart	lower body	lungs
(2)	upper body	lungs	heart	lower body
(3)	upper body-	lower body	lungs	heart
(4)	upper body	heart	lungs -	lower body

- 9. During a water rationing exercise, the _____.
 - (1) cost of water is more expensive
 - (2) water supply is temporarily cut off
 - (3) tap water is unsafe for drinking
 - (4) water level in reservoirs decreases

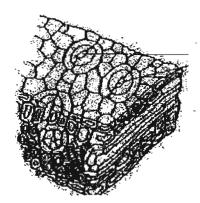
10. The picture below shows a cross section of a celery stalk. Which one of the following statements below describes best part mark 'X'?



cross section of a celery stalk

- (1) X is the xylem tube of the plant that transports water and mineral salts.
 - (2) X is the phloem tube of the plant that transports water and mineral salts.
 - (3) X is the xylem tube of the plant that transports food made in the leaves.
 - (4) X is the phloem tube of the plant that transports food made in the leaves.
- 11. What is the process of removing dissolved salt from seawater to obtain fresh drinking water?
 - (1) purification
 - (2) pollution
 - (3) desalination
 - (4) condensation

- 12. The gills of the fish have many blood vessels to ______
 - (1) take in food
 - (2) absorb dissolved carbon dioxide
 - (3) absorb dissolved oxygen
 - (4) enable them it to swim
- 13. The picture below shows what a girl saw under a microscope.



Which one of the following statements is true about what she saw in the picture?

- (1) They can be found on the stems of the plants.
- (2) They can absorb gases and water.
- (3) They can give off water.
- (4) They can make food.
- 14. Which one of the following living things gets energy indirectly from the sun?
 - (1) com plant
 - (2) rambutan tree
 - (3) monkey
 - (4) grass

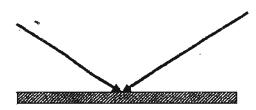
15. Which one of the following gases is **wrongly** matched with its description?

	Gas	Description
(1)	Carbon Dioxide	Plant takes in this gas during photosynthesis.
(2)	Oxygen	Living things take in this gas during respiration.
(3)	Water Vapour	It is present in the air.
(4)	Nitrogen	Plants take in this gas directly from the air.

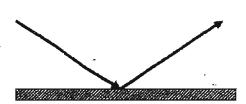
- 16. Which one of the following is not transported by the blood?
 - (1) carbon dioxide
 - (2) oxygen
 - (3) waste material
 - (4) water vapour
- 17. Which of the following statements about heat are wrong?
 - A: Heat helps living things to keep warm.
 - B: Heat enables man and animals to see.
 - C: Heat is needed to dry clothes
 - D: Heat is a kind of matter.
 - (1) A and B
 - (2) A and D
 - (3) B and C
 - (4) B and D
- 18. Which one of the following gives off natural light on its own?
 - (1) lighted bulb
 - (2) moon
 - (3) earth
 - (4) star

19. Which one of the diagrams below shows how light is reflected?

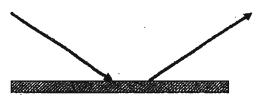
(1)



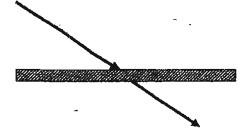
(2)



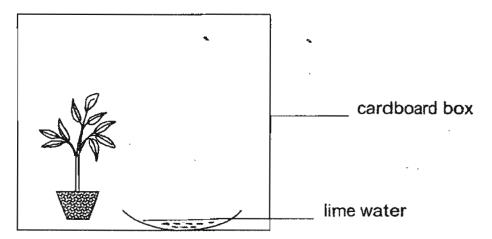
(3)



(4)



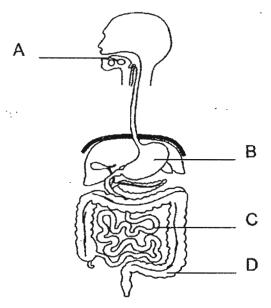
20. A plant is placed in a cardboard box as shown below.



The limewater will turn cloudy because the plant will _____.

- (1) respire
- (2) photosynthesize
- (3) give out water
- (4) use up energy
- 21. Bob's father eats a lot of vegetables. He works out in a gymnasium. He carries weights too. He is trying to build his
 - (1) muscles
 - (2) fats
 - (3) bones
 - (4) joints
- 22. The skull protects the _____ and the ribcage protects the
 - (1) brain, lungs
 - (2) eyes, intestine
 - (3) head, stomach
 - (4) nose, blood vessel

23. The diagram below shows a digestive system. In which part of the diagram will the digested food be passed into the blood vessel?



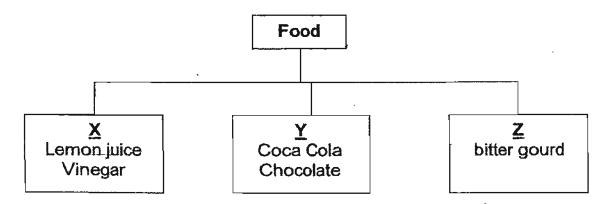
- (1) A
- (2) B
- (3) C
- (4) D
- 24. Julie wanted to find out whether a red apple or green apple was sweeter. Which one of the following senses does she need to use?
 - A: touch
 - B: hearing
 - C: sight
 - D: taste
 - (1) A and C
 - (2) C and D
 - (3) A, C and D
 - (4) B, C and D

	(1)	•
	(2) (3)	We can control all our muscles. The skeleton is covered with muscles. Muscles work in pairs. When one muscle contracts, the other relaxes.
		g photosynthesis, plants take in and give
	(2) (3)	oxygen, carbon dioxide oxygen, oxygen carbon dioxide, oxygen carbon dioxide, carbon dioxide
27.	The s	stem of a plant
	(3)	absorbs light for photosynthesis. transports water and food to other parts holds firmly to the ground gives out water
28.	Dige	stion starts in our
÷	(2) (3)	gullet stomach mouth small intestine

- 29. Ahmad received a game card that states the following.
 - It takes in oxygen into the body
 - It removes carbon dioxide from the body.

Which one of the following systems carries out the processes described above?

- (1) Circulatory system
- (2) Muscular system
- (3) Skeletal system
- (4) Respiratory system
- 30. Meiling drew the following classification chart.

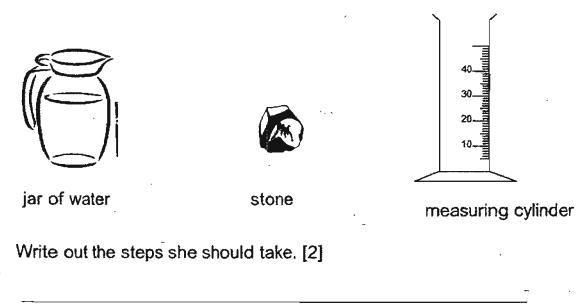


Which one of the following is best for the headings?

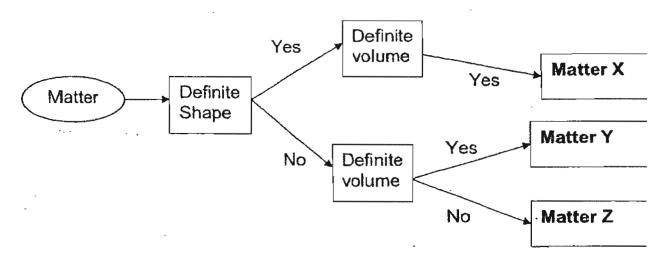
	X	Υ	Z
(1)	Sweet	Sour	Salty
(2)	Sour	Sweet	Bitter
(3)	Bitter	Sour	Sweet
(4)	Salty	Bitter	Sour

ame :	()	40
ection B (40 marks)		
nswer all the questions in th		
 Joseph poured the same shown below. 	amount of water in two beakers as	
Beaker C	Beaker D	
He had 2 iron balls of different into Beaker C and the big (a) Draw results of the ex	•	
Beaker C	Beaker D	
(b) What can you conclud	le from this experiment? [1]	5 9

32. Gina was instructed to find the volume of a stone. She was given the objects as shown below.



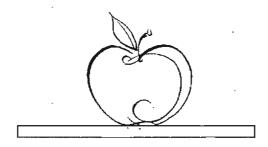
33. Study the flow chart on matter.



What is the state of each matter? [3]

Matter X	-	•
Matter Y	- *(
Matter Z	=	

34. Mandy took an apple out of the refrigerator and placed it on a table.



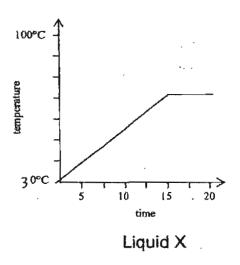
- (a) What would she see on the apple after a few minutes?
 [1]
- (b) Explain what happened in (a) [2]
- 35. Mrs Tay is trying to teach her children to conserve water by practising the 3 Rs. Write "Reducing", "Reusing" or "Recycling" for each of the activities. [3]

	Activities	3 Rs
(a)	Using water that was used to wash vegetables to water plants.	
(b)	Using a mug when brushing your teeth.	
(c)	Purifying water so that it can be used again.	

36. Fill up the table below to compare the process of respiration and photosynthesis of a plant. [4]

	Respiration	Questions	Photosynthesis
(a)		Does the process	
		require light?	
(b)		When does the	
		process take	
		place?	
(c)		What is the gas	
-		produced during	
		the process?	-
(d)		What is the gas	. ,
		taken during the	
		process?	

37. Judy was given 2 containers of colourless liquid. She boiled both liquids and plotted two graphs to show the changes in temperature.

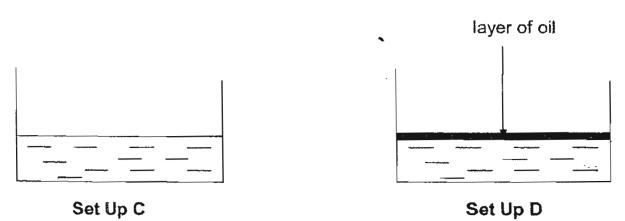


100°C - 100°C

(a) Which liquid is water? [1]

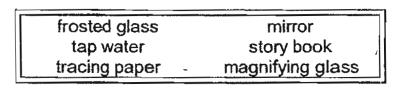
(b) Explain your answer in (a). [1]

38. Sally placed two basins of water under the hot sun.



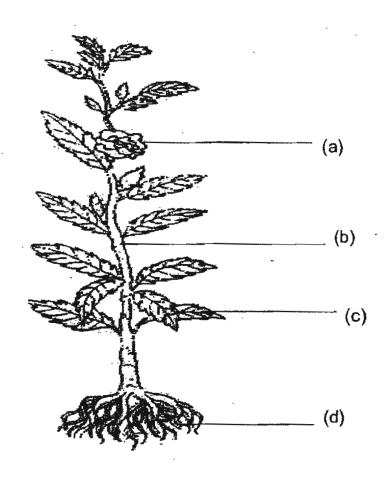
- (a) Which set up will have less water after 3 hours? [1]
- (b) Explain the reason for your answer in (a). [2]

39. Classify the objects below into the correct groups [3]



Allow some light to Allow all light to Allow no light to pass through pass through

40. The picture shows a balsam plant.



Identify the parts and write the answers below. [2]

(a)		
(4)	 	

- (b) _____
- (c)
- (d) _____

11.	Samy ran around the track for 20 minutes.						
	(a) What would happen to his heartbeat after 20 minutes?						
	(b) Wh	y is this so? [2]					
42.		the following statements. Write "True" or "False" in the ovided. [3]					
	(a)	When we breathe in, our ribs move out and upwards.					
	(b)	Blood which is rich in oxygen also carry waste materials.					
	(c)	The heartbeat can also be detected on the neck.					



	(a)	boy,	sun,	chicken,	see	ds .					
			→ [→	-		->		`	
					-			٠, .			-
	(b)	goat,	sun,	python,	gras	is (
] → [•		,	->			
							-				
	Stud	ly the o	diagrar	n below an	d fill i	n the ans	wers	•			_
	-										
				•							
			skull			- ,	ribo	. 3			
			SKUII				ПОС	age			-
)	What is the similarity of the 2 bones above? [1]										
										•	_
	-					· · · · · · · · · · · · · · · · · · ·					
)	Wł	ny is sk	eleton	system im	portar	nt in a hu	man	body	·? [1]		,

45 .	Tim and his friends are having a picnic at the beach.
	•

Tim : The satay is very delicious.

Lina: Oh dear! I think something is burning.

Paul: The coffee is hot

Cindy: I can hear the ringing bell of the ice-cream man.

Write down the senses used by each of the children when they make the statements. [2]

Tim -	
Lina -	
Paul -	
_	
Cindy -	

~~~ End of Paper ~~~





## answer sheet

AI TONG PRIMARY SCHOOL - PRIMARY 4 SCIENCE 2007 CONTINUAL ASSESSMENT (2)

| -                                                                |                                                                                                                                                                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. 3<br>2. 3<br>3. 3<br>4. 2<br>5. 2<br>6. 1<br>7. 2<br>8 2      |                                                                                                                                                                                                                   |
| 8 2<br>9 10. 1<br>12. 3<br>1. 3<br>15 1<br>16.                   | b) Ball D occupy more space than ball C.  (52) 1) Fine the Whitial volume of the water 2) Put in the Stone.  3) Record the new level of the water 4) Subtract the initial volume of the water from the new volume |
| 17.<br>18. 4<br>19. 2<br>20. 1<br>21.<br>22. 1<br>23. 3<br>24. 2 | IA) a) She would are water droplets b) The water v boar in the air ladeness on the cool apple to point water in piets                                                                                             |
| 25. 1<br>26. 3<br>27. 2<br>28. 3<br>29. 4<br>30. 2               | 5) a) Reentling. backeducing c) Reusand 36) at Wo, Yes b) All the time, During the day c) Carbon dioxide, Oxygen d) Oxygen, Carbon dioxide                                                                        |

- 37)a)Liquid Y
- b) When waters is borled, the temperature of the water will be 100 Cand then it will evaporate in the
- 38)a)Set up G
- b) Set up C will evaporate faster as there is no ayer of our covering it.
- 39) fracing paper tap water ir) frosted glass magnifying glass iii) mirror story book
- B)etam c)leaves d/roots )a)flower.
- 41 a) Samu heart beat will increase after 20 min The meant meeds to pumps mee blood as it to supply more digested feed water and other parts of the body t produce e
- 42 a rine b) False c) True
- 43) a) Sur seeds > chicken > boy b) Sun gras goat python
- 44)a) It pricect the vital b) The skeleton system helps to sugert our body.
- 45) Tim: tast Lina: sme Paul: touc Cindy: hearing