

SAZ

AI TONG SCHOOL

2004 SEMESTRAL ASSESSMENT 2 PRIMARY FOUR SCIENCE

DURATION: 1 hour 30 minutes

DATE: 1 November 2004

INSTRUCTIONS

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

Name :	Marks:	
Class: Primary		100
Parent's Signature:	. "I <i>p</i>	

Section A: (30 x 2 marks)

Choose the correct answer and shade its number in the OAS provided

1.	Whi	ich of the following <u>cannot</u> be classifie	ed as	s matter?
	A)	Music	В)	Dust
	C)	Shadow	D)	Air
	1)	A and C		
	2)	B and D		
	3)	A, C and D		
	4)	All of the above		
2.	Wh	nich of the following statement(s) is/a	re fa	alse about water at room temperature?
	A)			
	В)	Water can be seen.		
	C)	Water has definite volume.		
	D)	Water has definite shape.		
	41	C amb		
	1)	·		·
	2)	•		
	3)	•		
	4)	B, C and D		
3	. Dr	roplets of water appear on the outside	e of	a can of cold Coca- Cola when it is
	pι	ut on the table. This is caused by		·
	1)) water leaking out from the can		
	2)			
	3)	·	an	•
	4) water vapour changing into gas		

4. The table below shows some observations of 4 rivers A, B, C and D.

	Presence of Living	Calarin	Smell
River	Things	Colour)
A	Few	No	No
В	Few	Yes	Yes
c	Plenty	Yes	No
D	Plenty	No	No

A group of students went hiking and wanted to collect some water to drink. Which one of the rivers has water that is safest to drink?

1) River A

2) River B

3) River C

- 4) River D
- 5. Which of these are parts of the respiratory system?
 - A) Nose
 - B) Mouth
 - C) Windpipe
 - D) Gullet
 - 1) A only

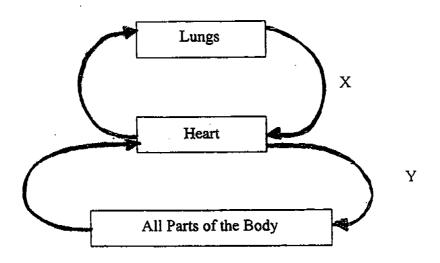
2) A and C only

3) A, B and C only

- 4) All the above
- 6. Air contains _____
 - 1) one type of gas only
 - 2) two kinds of gases only
 - 3) an equal amount of three gases only
 - a mixture of gases

- 7. Which one of the following statements is true?
 - 1) Our heartbeat slows down when we get excited
 - 2) Our heart relaxes and contracts when it pumps blood to other parts of the body.
 - 3) Our heart is the largest organ.
 - 4) Our heart pumps faster when we are asleep.

8.



Study the diagram above. What do the arrows X and Y indicate?

- 1) Blood carrying more nitrogen.
- 2) Blood carrying more oxygen.
- 3) Blood carrying more carbon dioxide.
- 4) Blood carrying undigested food and water.

9. The table below shows the average pulse rate of Peter at different ages.

	Average pulse rate (beats/min)
(A)	55
(B)	65
(C)	78
(D)	90

Which of the following shows the average pulse rate of the man when he was a baby?

- 1) A
- 2) B
- 3) C
- 4) D
- 10. The xylem tubes in the plants help to transport ______.
 - 1) water and minerals salts from the roots to the leaves
 - 2) water and minerals salts from the leaves to the roots
 - 3) food from the roots and to the leaves
 - 4) food from the leaves to all parts of the plant
- 11. When Keith was playing football with his friends, his _____
 - 1) heart pumps slower
 - 2) heart rate decreases
 - 3) body needs more carbon dioxide
 - 4) breathing speeds up

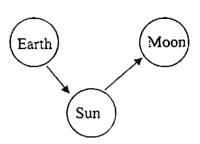
12.		rgy directly from?	cater	pillar. Where does the bird get its
	1)	The Leaf	2)	The air
	3)	The sun	4)	The Caterpillar
13.	Whi	ich of the following are natural light	sour	ces?
	A)	Lighting Lightning		
	B)	The Moon		
	C)	Satellites		
	D)	Stars		
	E)	The Sun		
	1)	A, C and D only	2)	A, D and E only
	3)	B, D and E only	4)	All of the above
14.	Wł	nich one of the fol lowing statements	abo	ut energy is <u>not</u> correct?
	1)	Energy is used by animals to make	e foo	d.
	2)	Energy has mass and occupies spa	ace.	
	3)	Energy keeps us warm.		
	4)	Energy enables us to do work.		

15. Which one of the following diagrams shows correctly how the Moon reflects light from the sun?

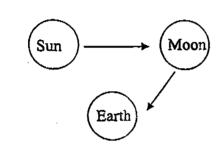
1. (Earth) (Moon)

Sun

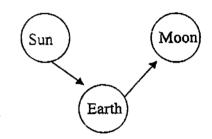
3.



2.



4.



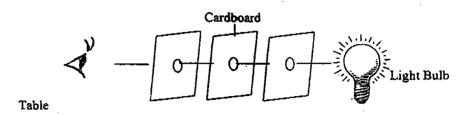
16. Which of the following object is wrongly classified?

Allows most light to	Allows some light to	Do not allow light to
pass through	pass through	pass through
Glass	Tracing Paper	Cardboard
Clear water	Metal can	Wood

- 1) Clear Water
- 2) Metal can
- 3) Tracing Paper
- 4) Wood

- When an object does not allow light to pass through it, ____
 - it would not reflect light
 - 2) it would appear white
 - 3) we are not able to see it
 - 4) we are not able to see the things behind it

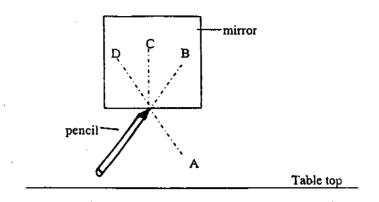
18.



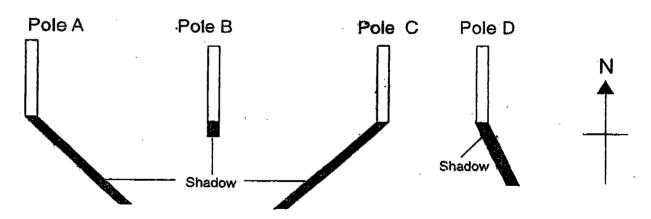
Li San is trying to show that light

- 1) is a form of energy
- 2) travels in straight lines
- 3) can be reflected
- 4) can pass through transparent objects

19. When you place a pencil at an angle of 45° at one point of a mirror, where will you find the image of the pencil?

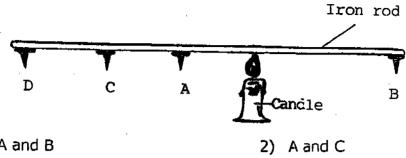


- 1) At point A
- 2) At point B
- 3) At point C
- 4) At point D.
- 20. The following figures show the shadow formed by a pole at different times of the day. Match the shadow to the correct time it was formed.



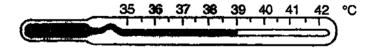
	8.00 am	12 noon	3.00 pm	6.00 pm
1)	Α	В	D	С
2)	С	В	D	A
3)	D	В	Α	C
4)	Α	В	С	D

21. In the diagram below, four thumbtacks are attached to an iron rod with wax. Which two thumbtacks will drop on at about the same time?



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

- 4) B and D
- 22. Mrs Tan took out a bottle of olives from the refrigerator. She could not open the bottle, so she poured some hot water over the metal cap of the bottle. This helped because the neat caused the
 - 1) metal cap to expand
 - 2) bottle to contract
 - 3) bottle to crack
 - 4) air in the bottle to expand and loosen the cap
- 23. The instrument below is used to measure the temperature of



- 1) ice
- 2) water
- 3) boiling water
- 4) human body

24.	A de	ented table tennis ball becomes round ag	ai	in when it is placed in the hot
	wat	er because the·		!
	1)	hot water expands .ball		
	2)	table tennis expand		
	3)	air inside the table tennis ball expands		
	4)	air outside the table tennis ball expands		
25.	The	e liquid that is contained in a thermomete	er	is usually
	A)	Oil		
	B)	Coloured water		
	C)	Mercury		
	D)	alcohol		
	1)	A or B)	A or C
	3)	B or D 4))	C or D
26	. w	hich sentence describes all the objects in	1 1	the box below?
		· <u>~</u>	_	
		Mineral water, car windscreen and s	p	pectacle lens
			_	

- 1) They give out light.
- 2) They are in the solid state.
- 3) They allow light to pass through.
- They can block light.

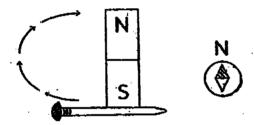
- 27. Which two things are made from materials that come from plants?
 - 1) Paper and glass
 - 2) Leather bag and paper
 - 3) Book and tyre
 - 4) Coin and cotton shirt
- 28. Study the two groups of objects shown below.

Group A	Tyre, eraser, balloon		 		
Group B	Nail, staple, safety pin			 _	

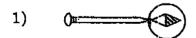
Which of the following objects would you put in Group B?

- A) Gold Bracelet
- B) Rubber Hose
- C) Paper Clip
- D) Key
- 1) A and B only
- 2) B and C only
- 3) A, B, and C only
- 4) A, C and D only

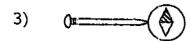
- A) Aluminium
- B) Iron
- C) Paper
- D) plastic
- 1) A and B only
- 2) B and C only
- 3) A, B and C only
- 4) A, C and D only
- 30. Susan made a magnet by stroking a nail as shown below.

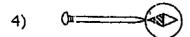


A compass was brought to the tip of the nail. Which of the following figures shows the correct result?









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Name:	V_	 Æ))
40		_	•

Section B: (10 x 2 marks)

Write down the correct answers in the blanks.

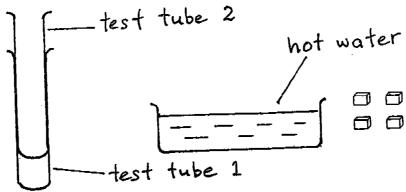
- 31. The unit for measuring ______ is degrees Celsius.
- 32. _____ refers to the amount of space a thing occupies.
- 33. The exchange of gases in plants takes place through a tiny opening in the leaf called a______
- 34. Fish take in oxygen through the _____.
- 35. When we breathe in, our _____ contracts and becomes flatter.
- 36. Inside the lungs are tiny tubes that end in balloon like structures called
- 37. We can feel clearly our _____ at our wrists and temples.
- 38. Materials that allow some light to pass through are called materials.



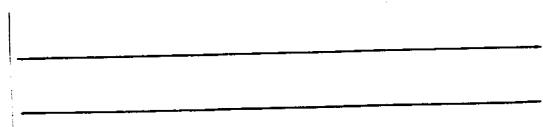
39.	During photosynthesis, green plants trap the energy from
	the Sun.
4 0.	If a magnet is allowed to turn freely, it always comes to rest in the
	direction.

Section C: (5 x 4marks)

41. Amanda was conducting a science experiment and needed 2 test tubes urgently. However, she found that one of her mischievous classmates had stuck the 2 test tubes together very tightly as shown below. What she was given was only some ice cubes and a basin of hot water.



a) Using the materials provided, suggest a way to separate the test tubes without breaking the test tubes. (2m)

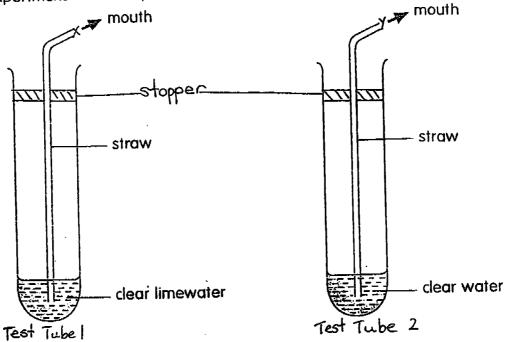


b) Explain the reason(s) for what you did in (a). (2m)

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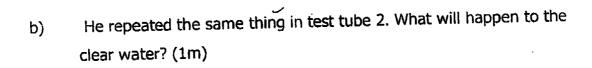


42. An experiment was set up as shown below.



Wei Wen placed his mouth at Point X and blew into the straw for 2 minutes.

a) What will nappen to the ilmewater in test tube 1? (1m)



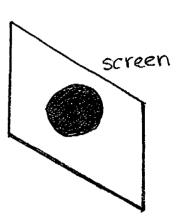
c) What is the aim of Wei Wen's experiment? (2m)





b)



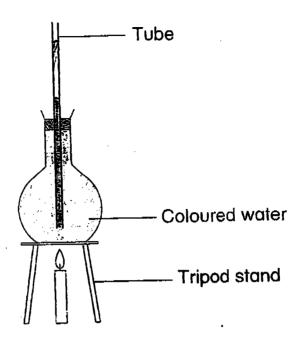


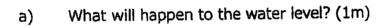
Suggest 2 ways how a bigger shadow of the ball can be formed on the screen.

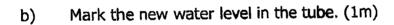
a)	***************************************	 	
	<u>:</u>	 	 (2m)

 .		 	-
(2m)		 	

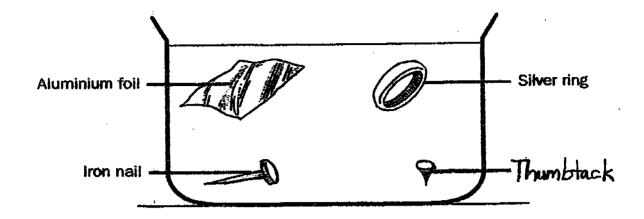
The apparatus was set up as shown below. The coloured water level in the tube was marked with permanent marker. The flask was heated for 2 minutes.





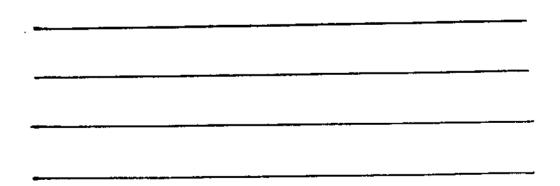






a) Some objects were placed in a basin of water. Which two objects can you remove without putting your name into the water? (2m)

b) How can you do so? (2m)



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1) 1	28) 4 45) a) Iron aail and thumbtack.
2) 3	29) 4 b) I can insert a strong magnet
3) 3	into the water. As both the 30) 4 iron nail and thumbtack are
4) 4	magnetic objects, they will 31) temperature stick to the strong magnet
5) 3	and I can remove them using 32) Volume the strong magnet.
6) 4	33) stoma
7) 2	34) gills
8) 2	35) disphragm
9) 4	36) air-sacs
10) 1	37) pulse
11) 4	38) transulcent
12) 4	39) light
13) 2	40) north-south
14) 2	41) a) Put test tube 1 into the basin of hot
15) 2	water.
16) 2	b) The hot water will cause test tube 1 to gain heat and expand. As a result,
17) 4	Amanda can separate the test tubes without breaking them.
18) 2	42) a) It will turn chalky.
19) 4	b) Nothing will happen to the clear water.
20) 2	c) To find out if carbon dioxide affects the
21) 3	clear limewater and the clear water.
22) 1	43) a) Move the light bulb nearer to the ball.
23) 4	b) Move the ball nearer to the light bulb.
24) 3	44) a) The water level in the tube will rise.
25) 4	b) c) The heat from the burning candle causes the
•	coloured water to gain
26) 3	heat and thus, expand.
27) 3	(EX)
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