



MAHA BODHI SCHOOL
2013 SEMESTRAL ASSESSMENT 2
PRIMARY THREE SCIENCE

Name : _____ () Date : 28 October 2013

Class : Primary 3 ()

Duration : 1 h 30 min (Booklets A and B)

BOOKLET A : [22 x 2 marks = 44 marks]

For each question from 1 to 22, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet.

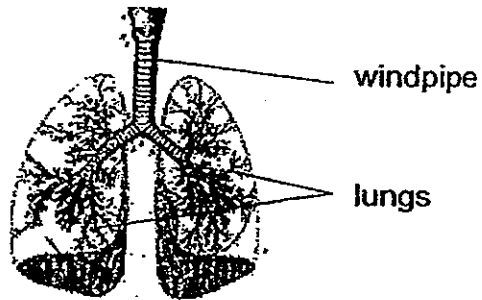
1. The diagram below shows a part of the skeletal system.



Which organs does this part of this skeletal system protect?

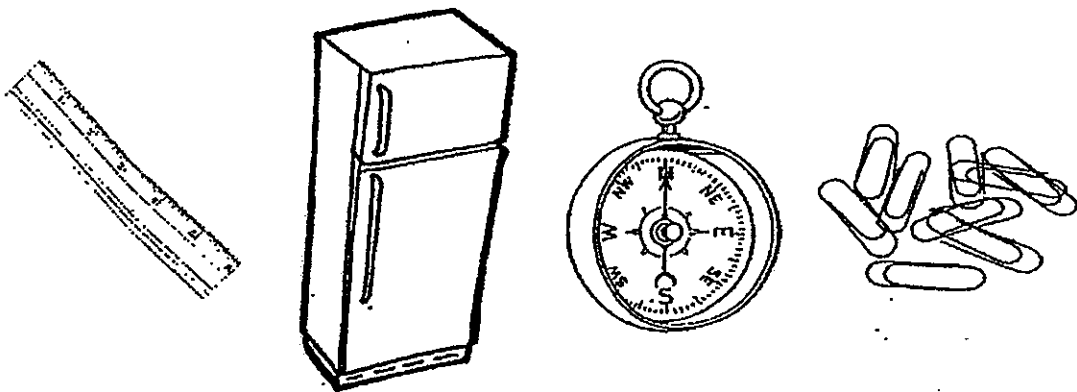
- A. lungs
 - B. heart
 - C. stomach
 - D. large intestine
- (1) A and B only
(2) A and C only
(3) B and D only
(4) C and D only

2. The diagram below shows part of an organ system.



What is this organ system?

- (1) Digestive system
 - (2) Muscular system
 - (3) Circulatory system
 - (4) Respiratory system
3. Which of the following items make use of magnets to function?



A: plastic ruler

B: refrigerator

C: compass

D: paper clips

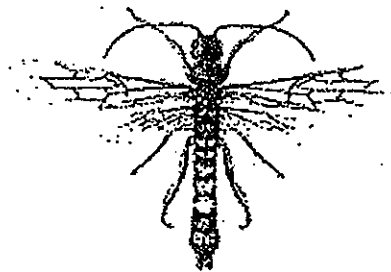
- (1) A and B only
- (2) B and C only
- (3) A, B and C only
- (4) A, B, C and D

4. Which of the following actions will cause a magnet to lose its magnetism?

- A. Heating the magnet over a fire.
- B. Hitting the magnet with a hammer.
- C. Keeping the magnet in a refrigerator.
- D. Dropping the magnet on the ground accidentally.

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


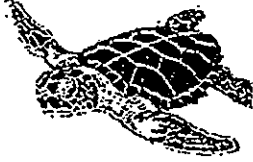

5. The diagram below shows an animal.



Which of the following cannot be used to classify this animal as an insect?

- (1) It has antennae.
- (2) It has two pairs of wings.
- (3) It has three pairs of legs.
- (4) It has a body divided into three parts.

6. Which of the following shows the correct body covering of animal X, Y and Z?

			
	Animal X	Animal Y	Animal Z
(1)	hair	shell	scales
(2)	feathers	shell	hair
(3)	hair	scales	shell
(4)	feathers	hair	scales

7. Ali, Billy, Carl and Dinesh saw some living things in their school's garden as shown in the diagram below.



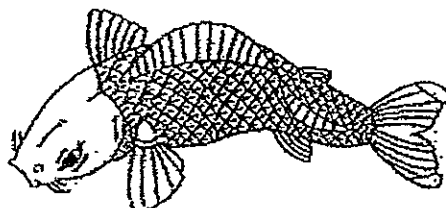
Each of them made a statement about these living things:

- Ali: They make their own food.
- Billy: They reproduce by spores.
- Carl: They do not need water to grow.
- Dinesh: They feed on plants and animals - dead or alive.

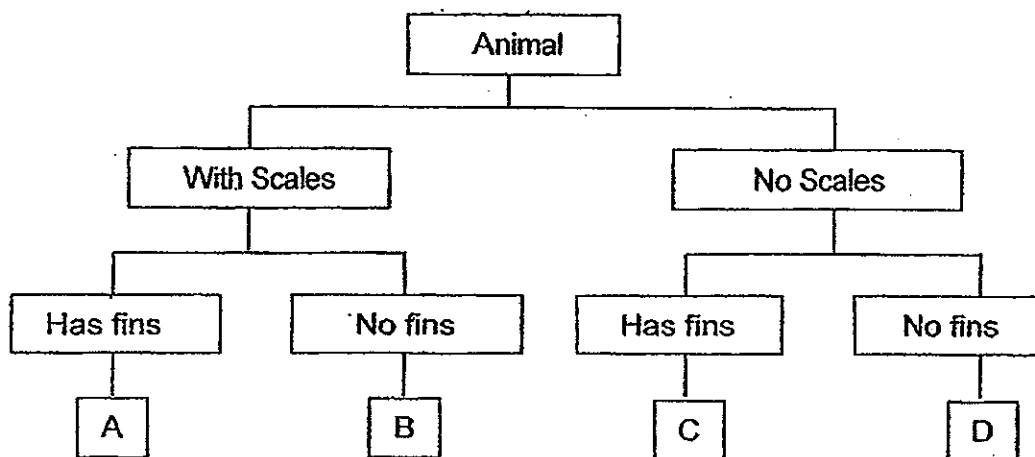
Whose statements are true?

- (1) Ali and Carl only
- (2) Ali and Dinesh only
- (3) Billy and Carl only
- (4) Billy and Dinesh only

8 John sees a picture of an animal, as shown below, in a magazine.



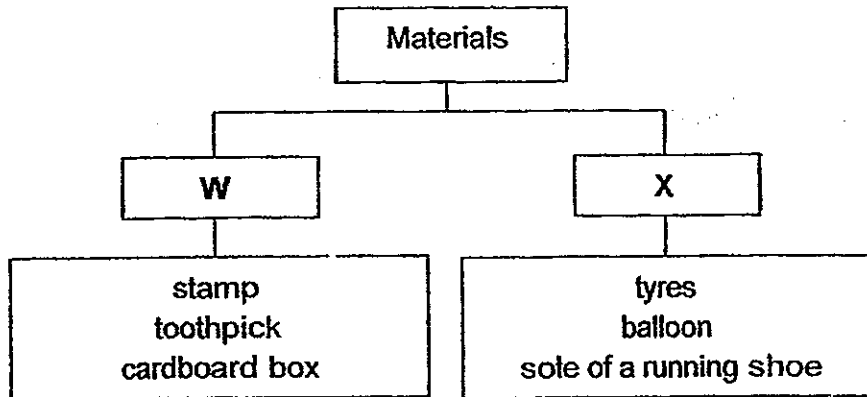
He wants to classify the animal using the classification diagram below.



From the classification diagram, which letter represents the above animal?

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

9. Study the classification table below.



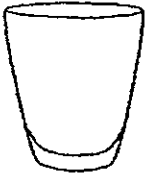



The objects have been grouped according to the type of material they are made of. Which of the following shows the suitable heading for W and X?

	W	X
(1)	wood	plastic
(2)	plastic	rubber
(3)	rubber	metal
(4)	wood	rubber

10. Which of the following does not state the correct reason for using the material to make the item?

	Item	Material	Reason
(1)	boat	wood	floats on water
(2)	shirt	cotton	soft
(3)	window grill	metal	strong
(4)	plates	ceramic	breaks easily

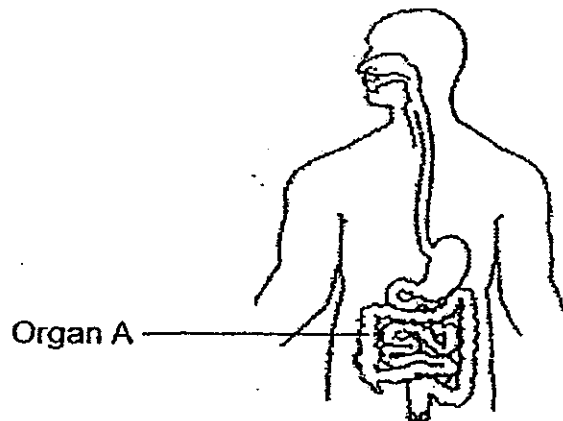
11. Study the diagram below.

Group A	Group B
 <p data-bbox="502 631 636 667">glass cup</p>  <p data-bbox="459 784 678 819">metal safety pin</p>	 <p data-bbox="1072 622 1209 658">plastic bag</p>  <p data-bbox="1109 795 1173 831">book</p>

How have the objects been classified?

- (1) whether they can break easily
- (2) whether they can absorb water
- (3) whether they are hard or soft
- (4) whether they allow us to see through them

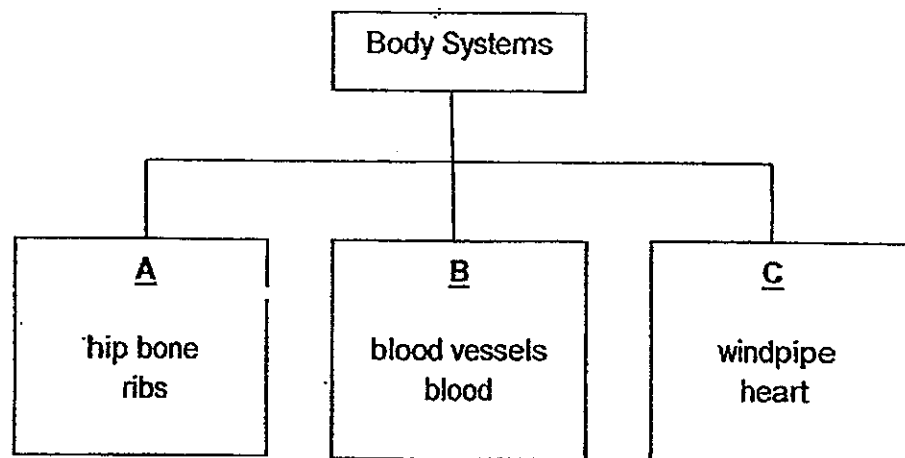
12. The diagram below shows a human digestive system.



What is the function of Organ A?

- (1) It digests food completely.
- (2) It passes the digested food to the blood.
- (3) It removes water from the undigested food.
- (4) It passes the undigested food out of the body.

13. Look at the classification diagram shown below.



Which of the following has been grouped incorrectly?

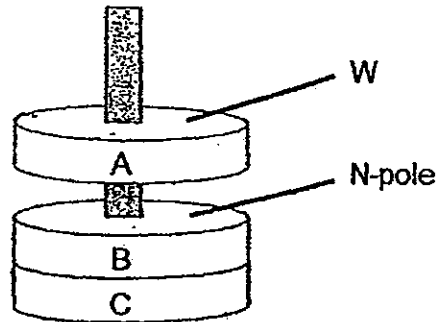
- (1) ribs
 - (2) heart
 - (3) blood
 - (4) hip bone
14. Alex tries to magnetise a copper nail with a magnet using the Stroke Method. However, he realises that he is unable to do so.

Why is Alex unable to magnetise the copper nail?

- (1) Copper is not a magnetic material.
- (2) The magnet is not strong enough.
- (3) Alex has not stroke the copper nail enough times.
- (4) Alex does not stroke the copper nail in only one direction.

For question 15 and 16, study the diagram below.

Sandra has three ring magnets, A, B and C. She places the magnets through a plastic rod and observes that magnet A floats above magnet B and magnet B rests on magnet C.



15. Which of the following explain Sandra's observation?
- A. Unlike poles of magnets A and B are facing each other.
 - B. Unlike poles of magnets B and C are facing each other.
 - C. Like poles of magnets A and B are facing each other.
 - D. Like poles of magnets B and C are facing each other.
- (1) A and C
(2) A and D
(3) B and C
(4) B and D
16. Based on the diagram, what happens if magnet A is flipped over so that the pole at W faces the N-pole of B?
- (1) The S-pole of magnet A will repel the N-pole of magnet B.
 - (2) The N-pole of magnet A will repel the N-pole of magnet B.
 - (3) The S-pole of magnet A will attract the N-pole of magnet B.
 - (4) The N-pole of magnet A will attract the N-pole of magnet B.

17. The table below shows the characteristics of some things, W, X, Y and Z.

Things	Can move from place to place	Needs air, water and food	Can reproduce from spores	Can grow
W	✓	✓		✓
X		✓	✓	✓
Y		✓		✓
Z	✓			

Which of the following shows the possible groups that W, X, Y and Z can belong to?

	W	X	Y	Z
(1)	animal	non-living	fungi	plant
(2)	fungi	animal	plant	non-living
(3)	animal	fungi	plant	non-living
(4)	plant	non-living	animal	fungi

18. Daryl was walking in his school's garden. He noticed a plant and touched it. The leaves of the plant closed when Daryl touched them.

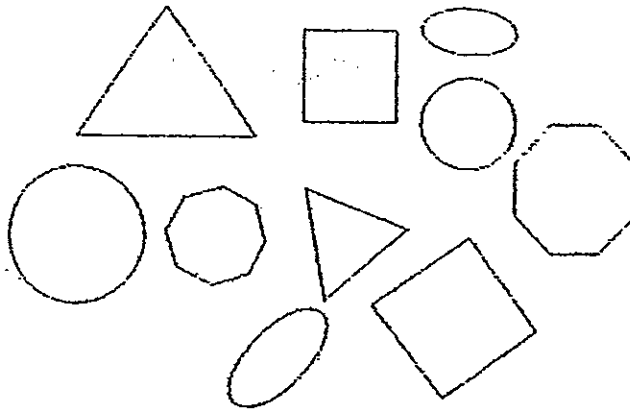


plant

Which characteristic of living things does this show?

- (1) Living things die.
- (2) Living things can reproduce.
- (3) Living things respond to changes around them.
- (4) Living things need air, water and food to survive.

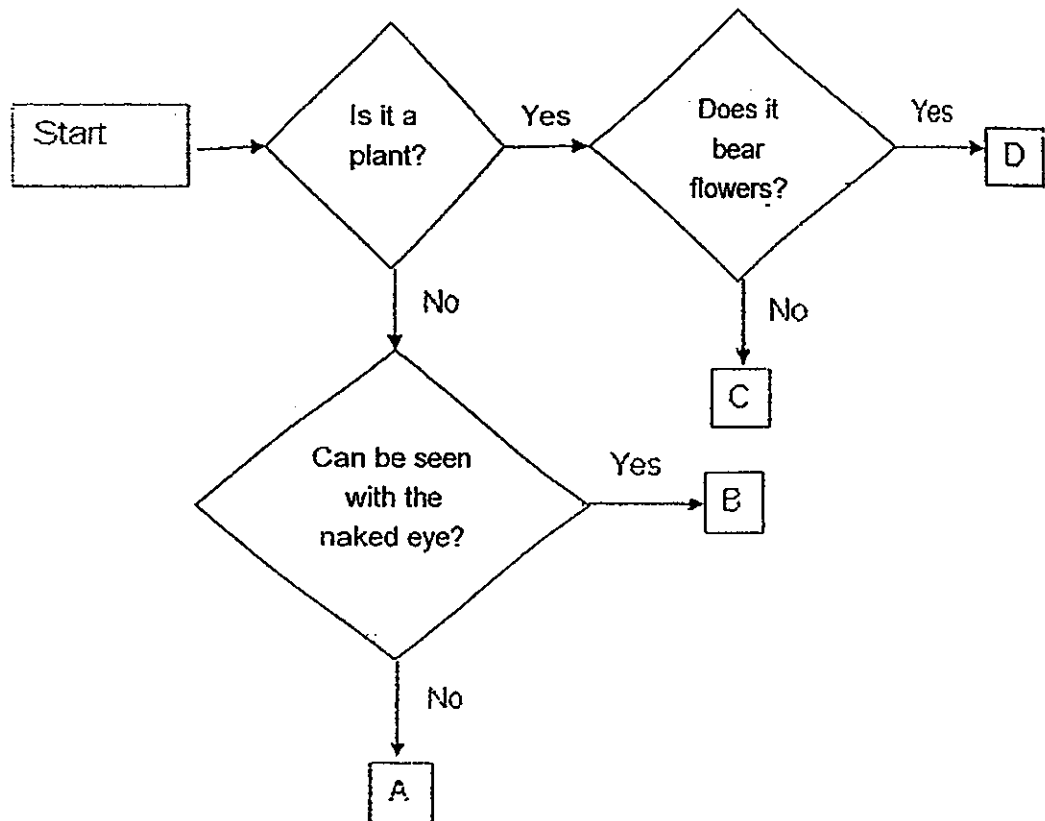
19. Billy has different objects as shown in the diagram below.



Which of the following cannot be used to group the objects?

- (1) colours
 - (2) shapes
 - (3) number of sides
 - (4) number of angles
20. Max wants to buy a fish tank to rear many goldfishes at home.
What properties of the material of the fish tank should he look out for?
- A. It is light.
 - B. It is strong.
 - C. It is waterproof.
 - D. It allows him to see through it.
- (1) A, B and C only
 - (2) A, C and D only
 - (3) B, C and D only
 - (4) A, B, C and D

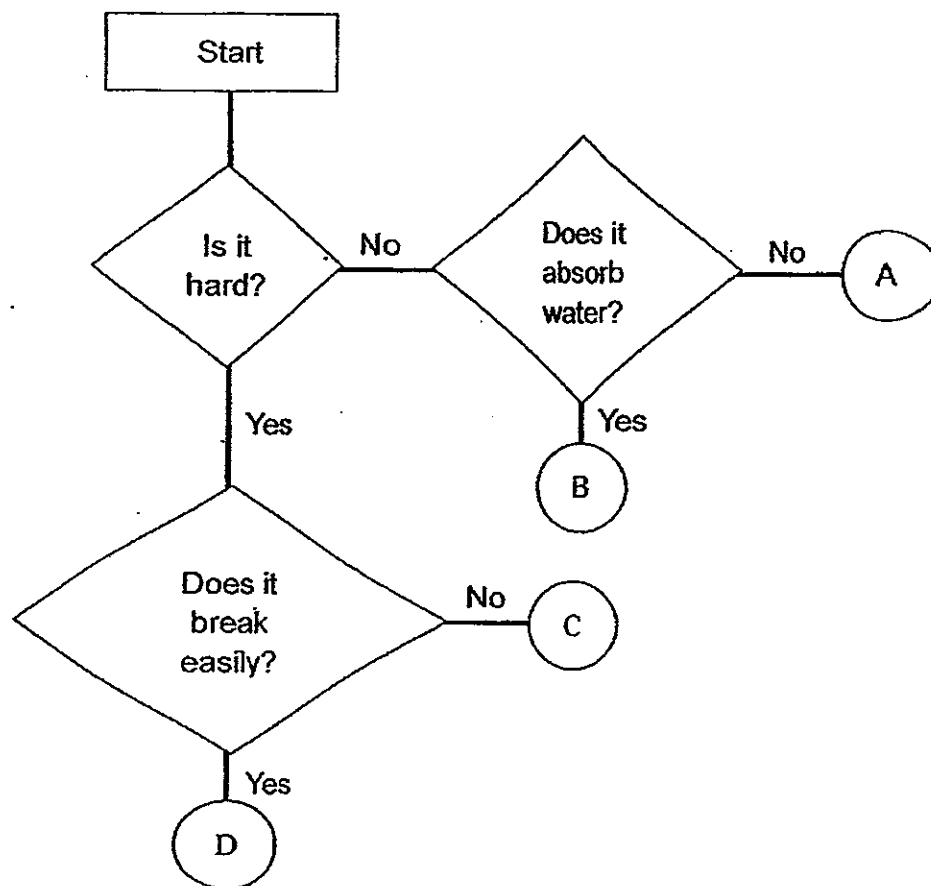
21. Study the flowchart below.



Which letter in the flowchart represents bacteria and yeast?

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

22. Study the flow chart below.



Which letter can represent the material of a raincoat?

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

END OF BOOKLET A

GO ON TO BOOKLET B



MAHA BODHI SCHOOL
2013 SEMESTRAL ASSESSMENT 2
PRIMARY THREE SCIENCE

Name : _____ ()

Class : Primary 3()

Duration : 1 h 30 min (Booklets A and B)

Date : 28 October 2013

Parent's Signature: _____


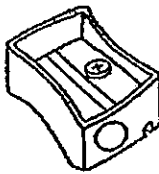
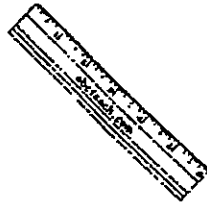
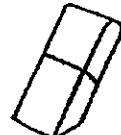
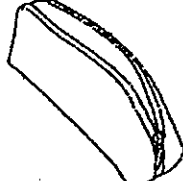

Booklet A (44 marks)	
Booklet B (28 marks)	
Practical Test (8 marks)	
Total (80 marks)	

BOOKLET B : [28 marks]

For questions 23 to 30, write your answers in this booklet.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

23. The pictures below show some objects.

		
robot	sharpener	ruler
		
eraser	pencil case	thumbtack

(a) Circle those objects that are systems.

[2]

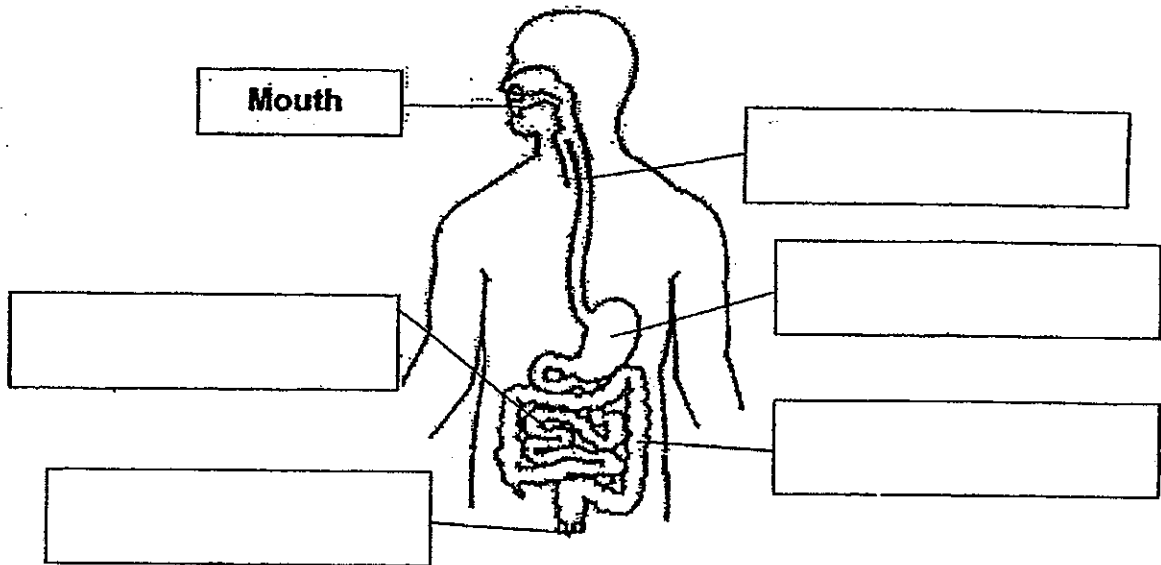
Marks :

12

- (b) Based on your answer in (a), explain why those items are considered as systems?

[1]

24. The diagram below shows a human system.



- (a) The above system breaks down food into simple substances. State another function of this system.

[1]

- (b) Besides the mouth, digestion takes place in other parts. Label these parts in the above diagram.

[2]

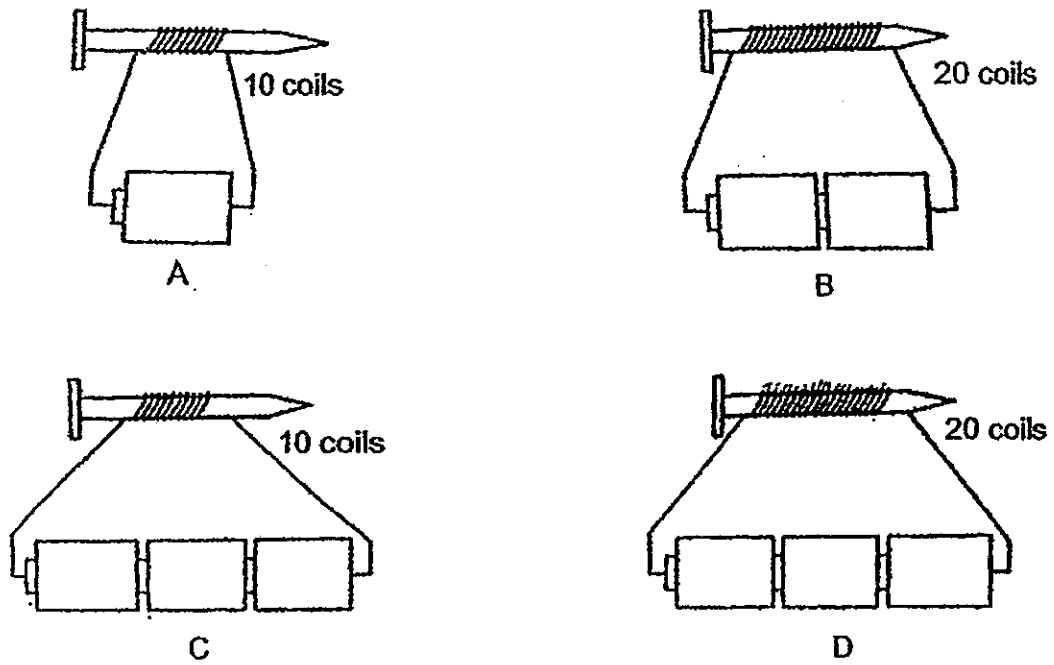
- (c) Elliot eats an apple. Explain how the apple changes into smaller pieces in the mouth.

[1]

Marks :

15

25. The diagram below shows four different electromagnets, A, B, C and D. Similar nails, batteries and wires are used to make these electromagnets.



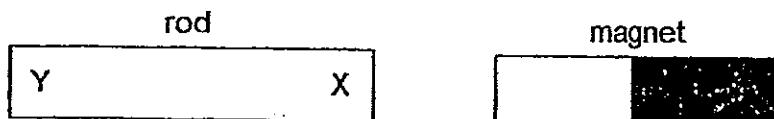
- (a) Which is the strongest electromagnet? Explain your answer. [2]

- (b) To confirm your answer in (a), what should Jeffrey observe if the four electromagnets (A, B, C and D) are brought near a plate of steel pins? [1]

Marks :

/ 3

26. (a) Jeffrey has a rod and a magnet.



(i) What should Jeffrey do to find out if the rod is a magnet? [1]

(ii) What observation should Jeffrey make to show that the rod is a magnet? [1]

(b) Jeffrey is lost in a jungle during a camp. He has only a magnet and a string in his pocket.

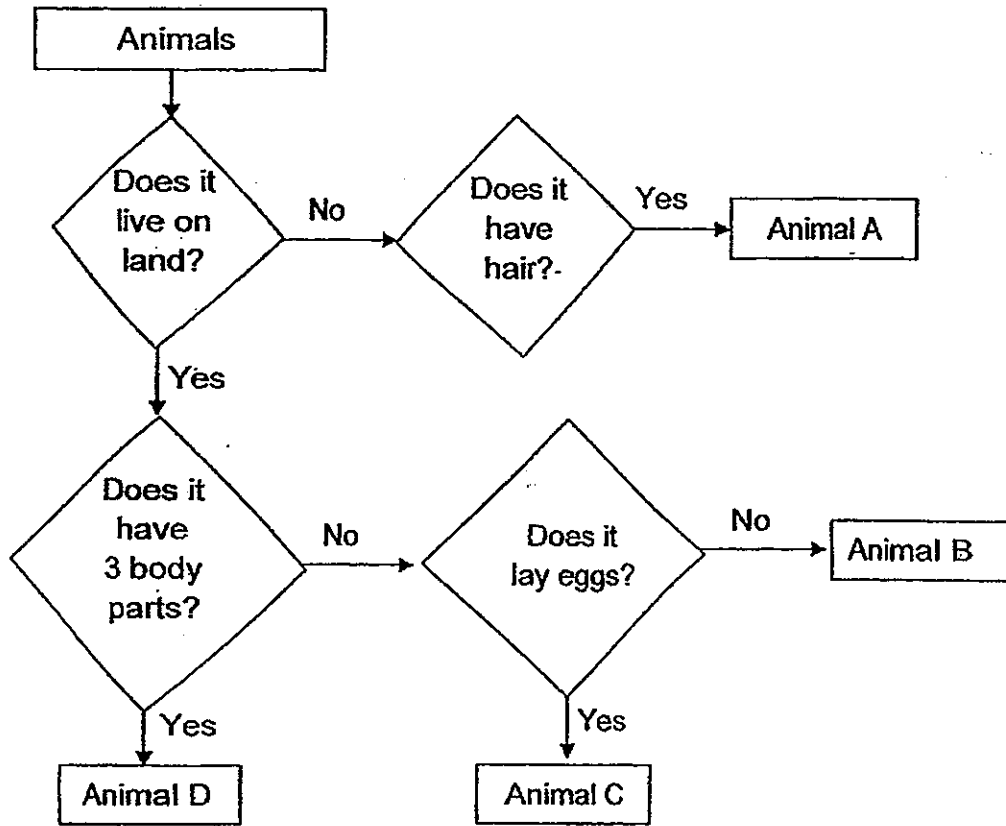
(i) State how he can use the magnet to find his direction back to the camp site which is located north of the jungle. [1]

(ii) State the property of a magnet which allows him to find his direction. [1]

Marks :

/ 4

27. Study the flow chart below



Based only on the information given, answer the following questions.

(a) State one difference between Animal B and D. [1]

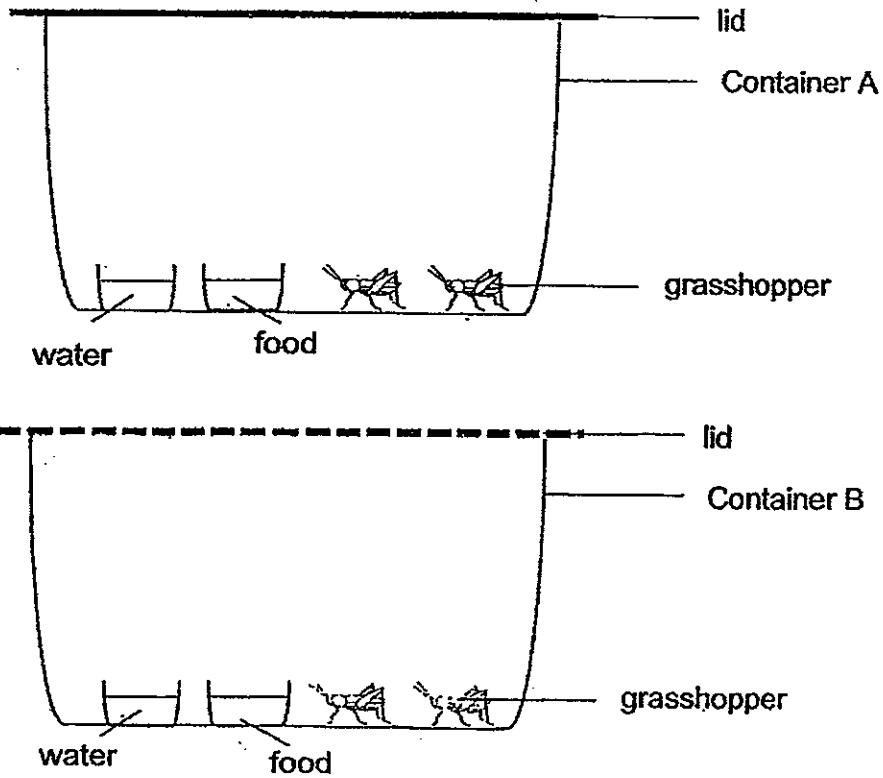
(b) Which of the animals (A, B, C or D) is a mammal? _____ [1]

(c) Other than the characteristics mentioned in the flowchart, state another characteristic that most mammals have. [1]

Marks :

/ 3

28. John places two grasshoppers in each of the two containers, A and B. Container A covered with a lid without holes and Container B is covered with a lid with holes.



- (a) In which container will the grasshoppers stay alive longer? [1]

- (b) Explain your answer in (a). [2]

Marks :

13

- (c) After one month, John observes that there are more grasshoppers in the container where the grasshoppers have survived.

What characteristic of living things does this show?

[1]

29. The diagram below shows two objects.



garden chair



grocery bag

- (a) State a material that can be used to make both of the above objects. [1]

Material: _____

- (b) State one similar **property** of the material for making both objects. [1]

- (c) State a difference in one **property** of the material of both objects. [1]

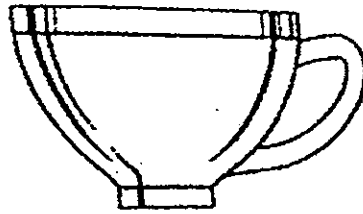
The material of the garden chair is _____

but the material of the grocery bag is _____

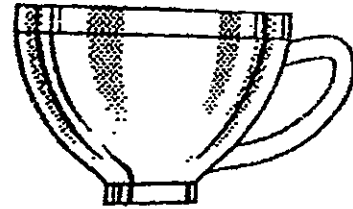
Marks :

14

30. (a) Peter has two cups made of different materials, A and B, as show below.



Material A



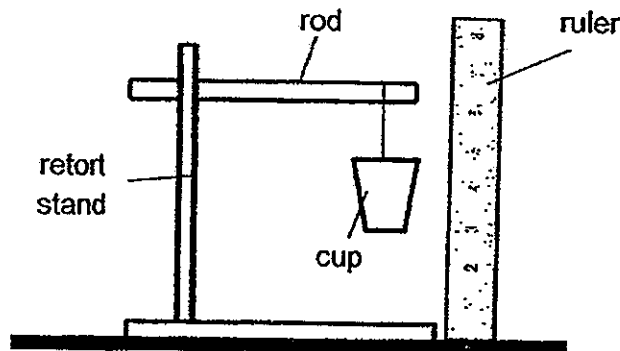
Material B

Peter found that material A is able to scratch material B but material B is not able to scratch material A.

What does this show about the property of the two materials? [1]

Material A is _____ than material B.

- (b) Sally has three rods made of different materials. She sets up an experiment as shown in the diagram below to test one property of the different materials.



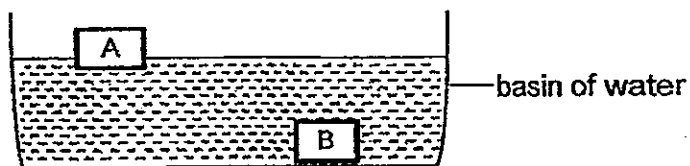
For each rod, she adds weights to the cup and measures how much the rod bends.

What is the property of the materials that Sally is testing? [1]

Marks :

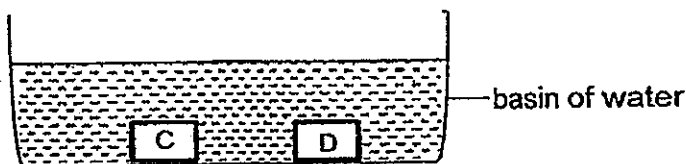
12

- (c) The diagram below shows two objects, A and B, placed in a basin of water. The objects have the same size but are made of different materials.

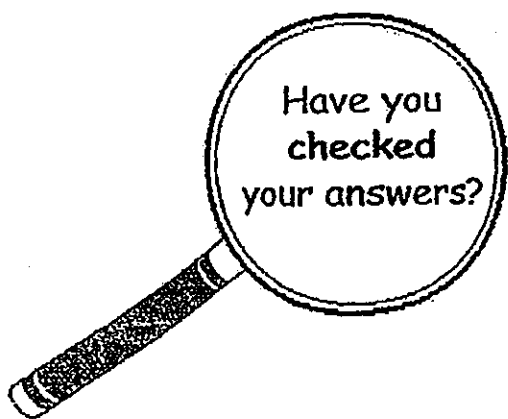


Based on the diagram, state the difference in one property of objects A and B. [1]

- (d) The diagram below shows two objects, C and D, placed in a basin of water.



Based on the diagram, can you conclude that both objects C and D are made of the same material? Give a reason for your answer. [1]



~ END OF PAPER ~

Marks :

12

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : MAHA BOHDI SCHOOL

SUBJECT : PRIMARY 3 SCIENCE

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
1	4	2	3	1	2	4	1	4	4	3	2	2	1	3	3	3

Q18	Q19	Q20	Q21	Q22
3	1	3	1	1

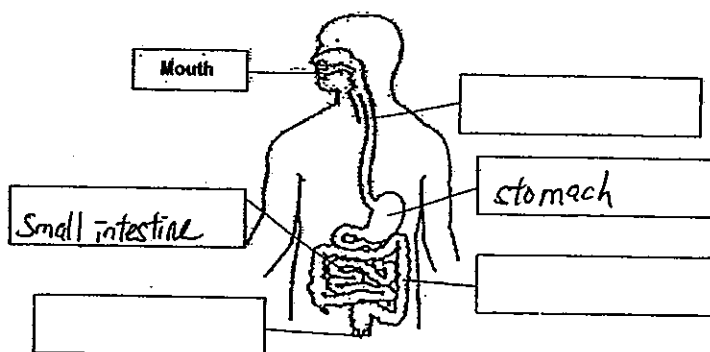
Section B

Q23) a) Robot, sharpener, pencil case

b) They are made of more than one part, the parts work together to form a function

Q24) a) It absorbs the simple food substances.

b)



- c) The teeth help to chew and grind the apple into smaller pieces
- Q25) a) D, it has the most batteries and coils.
b) D will attract the most amount of steel pins
- Q26) a) i) He should bring the magnet close to the rod and see if it attracts one side of the rod and repels the other side.
ii) The magnet will repel either side of the rod
b) i) He can tie the magnet to the string and let it turn freely, and follow the direction where its pointing.
ii) A magnet comes to rest in the north-south direction when it is able to turn freely
- Q27) a) Animal D has 3 body parts while Animal P does not
b) Animal A
c) Mammals give birth to their young alive
- Q28) a) Container B
b) Container B has holes for air, and water and food. Container A has only food and water. The grasshoppers need air, water and food to survive.
c) Living things reproduce
- Q29) a) plastic
b) Water-proof
c) Stiff; flexible
- Q30) a) harder
b) Flexibility
c) Object B sinks in water while object A floats in water
d) No. There are many materials that sink in water