METHODIST GIRLS' SCHOOL (PRIMARY)
CONTINUAL ASSESSMENT 1
PRIMARY FOUR
SCIENCE 2010

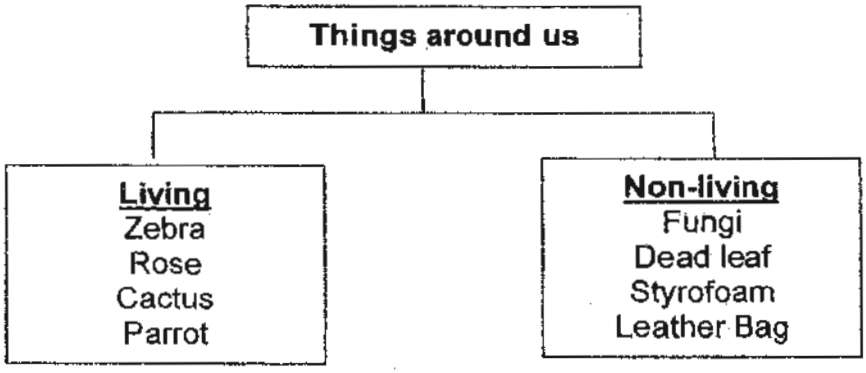
Name: _____ ( ) **Marks:** _____

Class: P4. _____ **Parent's Signature:** _____

Date: _____

Section A: (15 x 2 marks)
Read each question carefully. Choose the most suitable answer and write its number 1, 2, 3 or 4 in the brackets provided.

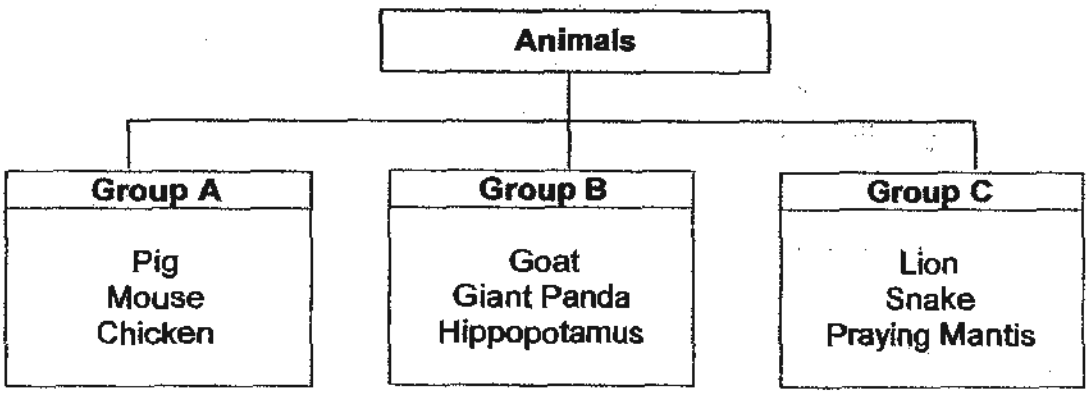
1. Study the classification table below.



Which one of the following is wrongly grouped?

(1) Fungi
(2) Parrot
(3) Styrofoam
(4) Leather Bag ( )

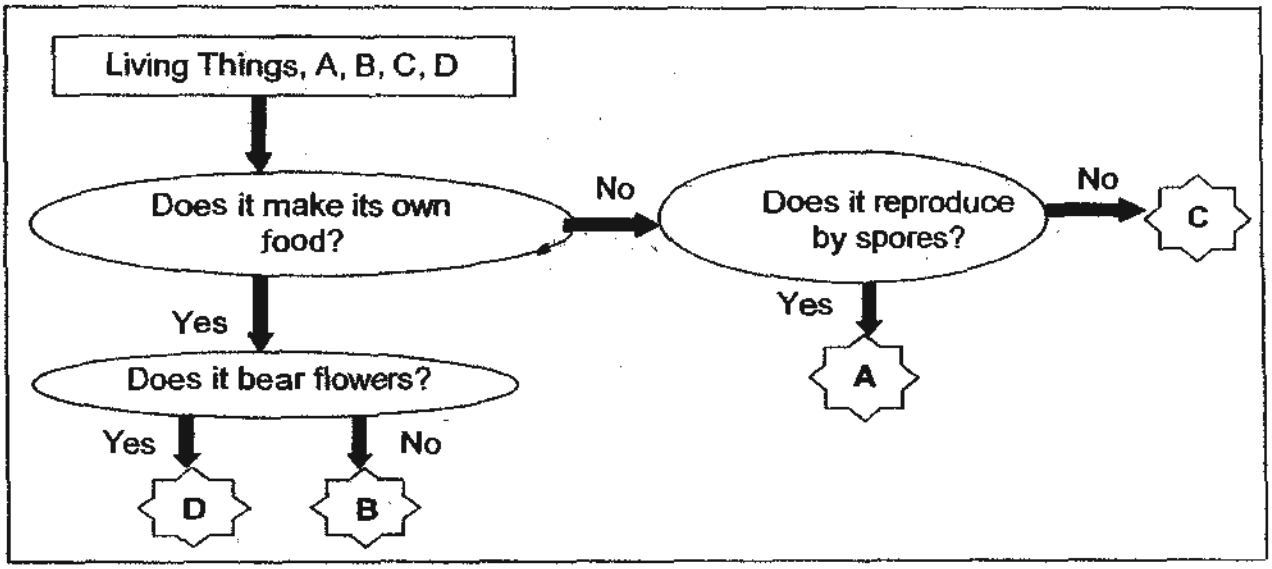
2. The diagram below shows three groups of animals.



These animals are classified according to _____.

(1) the food they eat
(2) their body covering
(3) the way they breathe
(4) the number of stages in their life cycle ( )

3. Study the flow chart carefully.



Based on the information above, which living thing best represents bread mould?

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

4. Study the two following groups of animals.

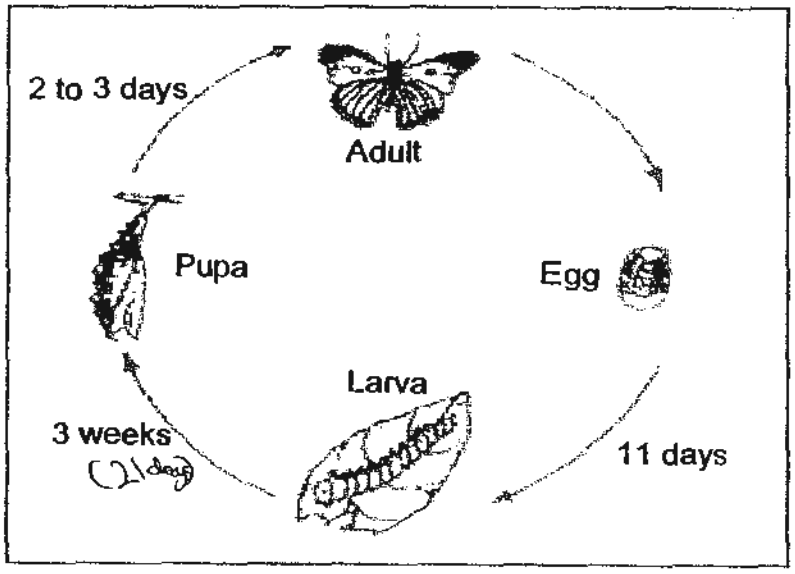
Group Y	Group Z
Moth	Dog
Butterfly	Monkey
Grasshopper	Elephant

Which of the following sets are suitable headings for Group Y and Z?

	Group Y	Group Z
A	Insects	Mammals
B	Land Animals	Sea Animals
C	Animals that can fly	Animals that cannot fly

(1) A and B only
(2) A and C only
(3) B and C only
(4) All of the above. ( )

5. Based on the given life cycle in the following, when does the yong of a feeding completely? butterfly stop



(1) Approximately 11 days after the egg is laid.
(2) Approximately 32 days after the egg is laid.
(3) Approximately 46 days after the egg is laid.
(4) Approximately 53 days after the egg is laid. ( )

6. Four children made some statements about bacteria and fungi during a Science lesson.

Anne: Some fungi can be eaten.
Chris: All bacteria are harmful to us.
Henry: Both bacteria and fungi do not need food
Rahim: Fungi and bacteria help to break down dead organisms into simpler substances.

Whose statements are correct?

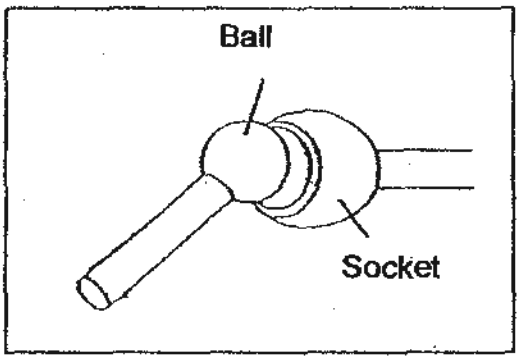
(1) Anne and Chris
(2) Anne and Rahim
(3) Chris and Rahim
(4) Chris, Henry and Rahim ( )

7. Which of the following are the functions of the circulatory system?

A: Enables the body to move.
B: Enables the exchange of gases with the surroundings.
C: Carries oxygen and digested food to all parts of the body.
D: Carries waste materials away from all parts of the body to be removed.

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

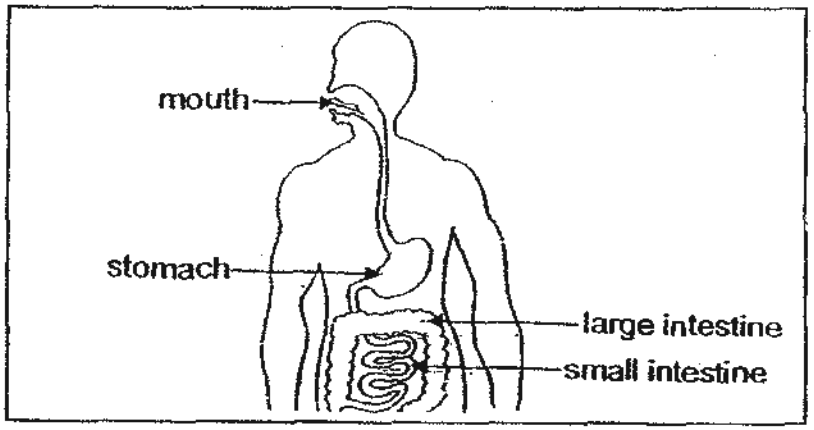
8. The diagram below shows a model that represents a part of our skeletal system.



Which of the following statement describes the function of the model shown above?

(1) It supports our body and gives it shape.
(2) It allows the movement of bones in all directions.
(3) It allows the movement of bones in one direction.
(4) It allows the movement of bones in an up-down direction. ( )

9. Which part of the digestive system **does not** produce digestive juices which break down food?



(1) Mouth
(2) Stomach
(3) Large intestine
(4) Small intestine ( )

10. Study the diagram below. The objects have been classified according to some common properties.

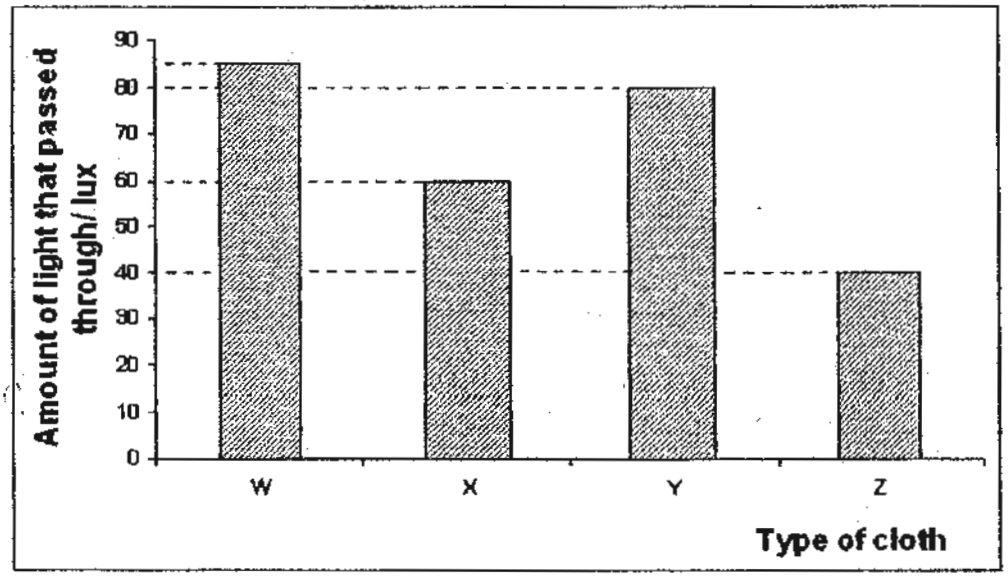
Group 1	Group 2
 handkerchief	 iron screw
 rubber band	 steel spoon

How are the objects grouped?

A: float and sink
B: flexible and inflexible
C: non-waterproof and waterproof
D: non-magnetic and magnetic

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

11. Mrs Wong wanted to make a new set of curtains that would block as much sunlight as possible in her bedroom. The amount of light is measured in units of lux.
The following graph shows the amount of light which passes through four different types of cloth: W, X, Y and Z.



Which one of the following types of cloth is the least favourable material to make Mrs Wong's curtains?

(1) W
(2) X
(3) Y
(4) Z ( )

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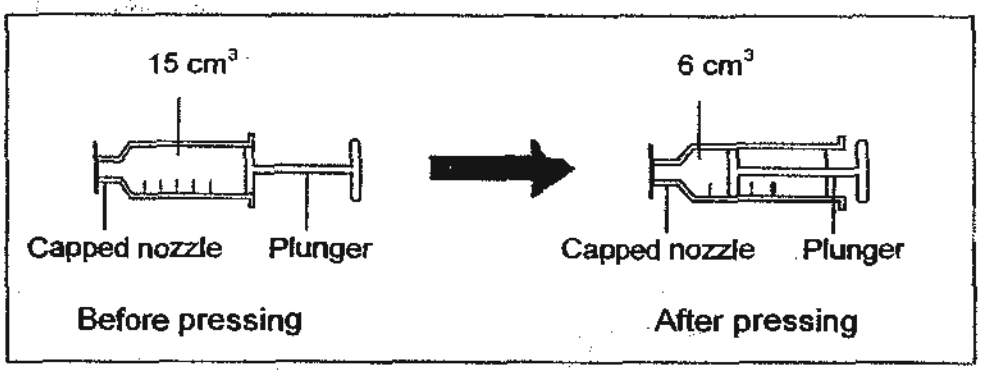
12. Darren had four similar magnets A, B, C and D.
To compare the strength of the magnets, he placed each of the magnets near some pins.
The table below shows the number of pins attracted by the magnets, A, B, C and D, from various distances.

Magnet	Distance between magnet and pins (cm)	Number of pins attracted
A	4	11
B	3	11
C	5	10
D	3	12

Which of the following statements is **correct**?

(1) Magnet D is the strongest magnet.
(2) Magnet A is as strong as magnet B.
(3) Magnet D is a stronger magnet than magnet B.
(4) Magnet B is a stronger magnet than magnet C. ( )

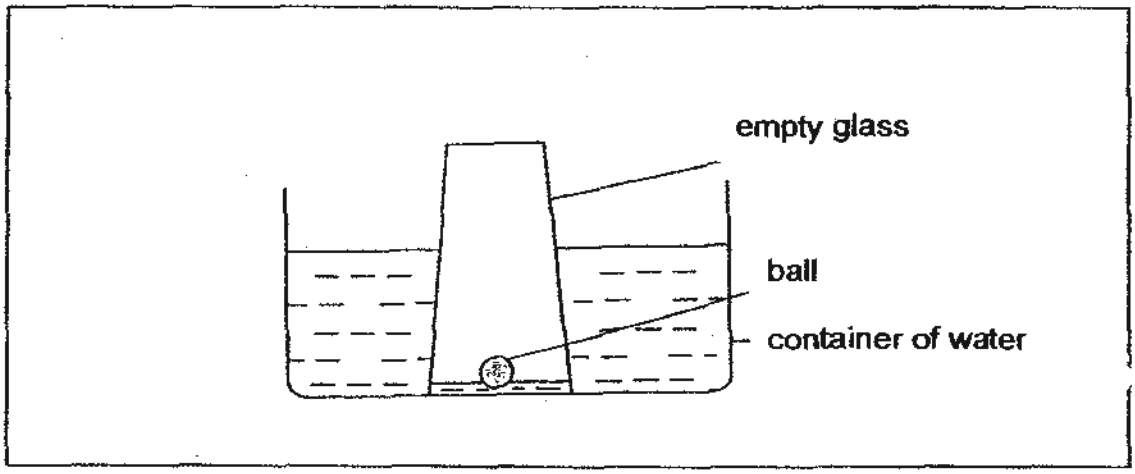
13. Jane pressed a plunger as shown in the diagram below.



Which one of the following substances could be inside the syringe?

(1) Glue
(2) Nitrogen
(3) Baby Powder
(4) Cranberry Juice ( )

14. A rubber ball is floating in a container of water. John immersed an empty glass over the ball into the container of water until it touched its bottom.
He observed that the water level inside the glass was not the same as the water level outside. The ball still floated on the water as shown below.

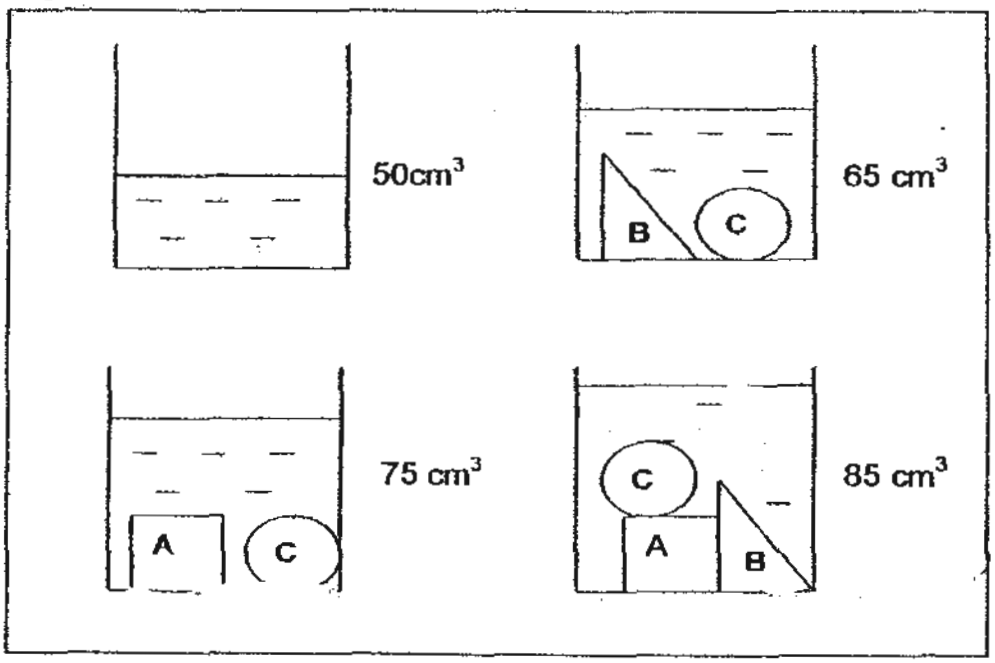


What could be the reason for the difference in the water level inside and outside the glass?

(1) The ball in the glass occupied space.
(2) The ball pushed the water out of the glass
(3) The air trapped in the glass occupied space.
(4) The air trapped in the glass dissolved in the water and pushed the water out of the glass.

( )

15. A beaker holds 50 cm^3 of water.
Objects A, B and C are placed into the container as shown in the following diagram.



Based on the diagram, which of the following statement is/are **correct**?

A: The volume of object C is 5 cm
B: The volume of object B is 10 cm
C: The volume of object A and B is 25 cm^3
D: The volume of all the three objects is 85 cm^3

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

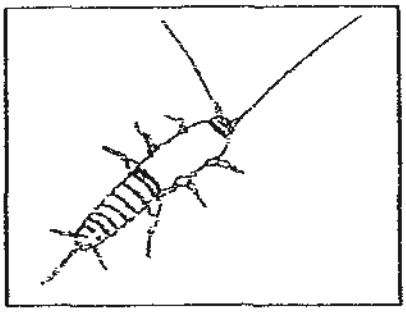
( )

End of Section A

Section B : (20 marks)

Write your answers in the space provided.

16. Observe the silverfish in the picture below.



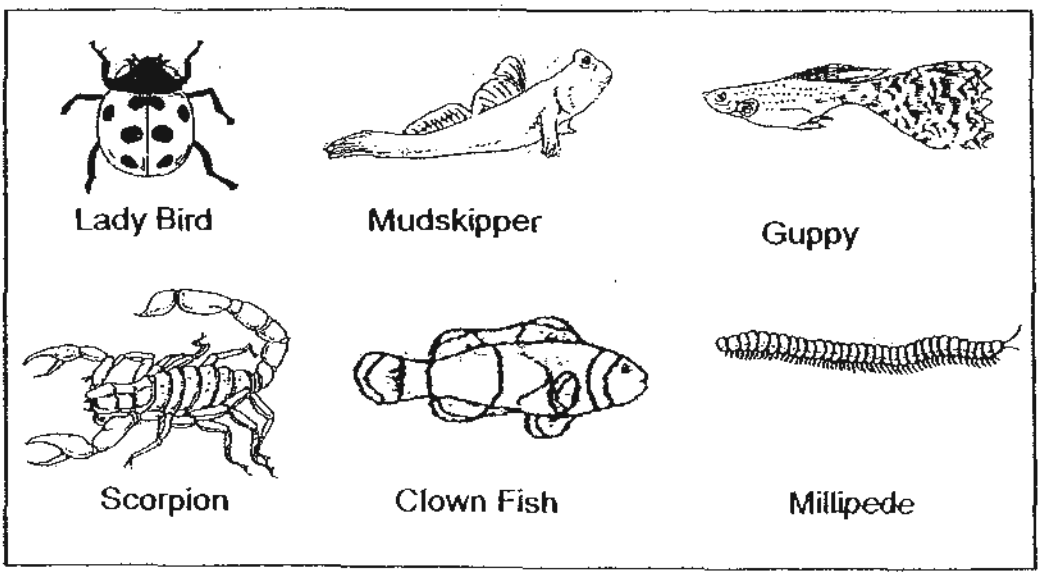
a) Which group of animals does the silverfish belong to?
Explain your answer (2m)

_____

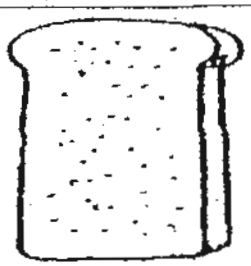
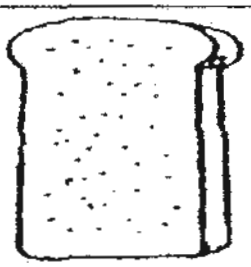
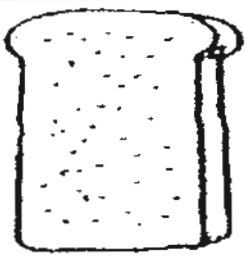
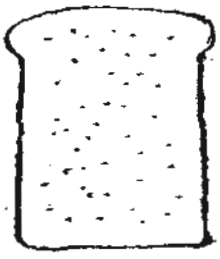
_____

b) Which of the following animal/s shown below belong to the same group as the silverfish?

Circle the animal/s. (1m)



17. Alicia placed 4 types of bread in different set- ups as shown in the following. After two weeks, she observed mould on some of the breads.

			
Set up A	**Set up B**	**Set up C**	**Set up D**
Dry bread left in a bright room	Dry bread left in a dark room	Moist bread left in a bright room	Moist bread left in a dark room

After two weeks, she observed mould growing on some of the breads.

(a) Which of the 2 set-ups above, A, B, C or D would she observe the mould? (1m)

_____

(b) Where did the mould come from? (1m)

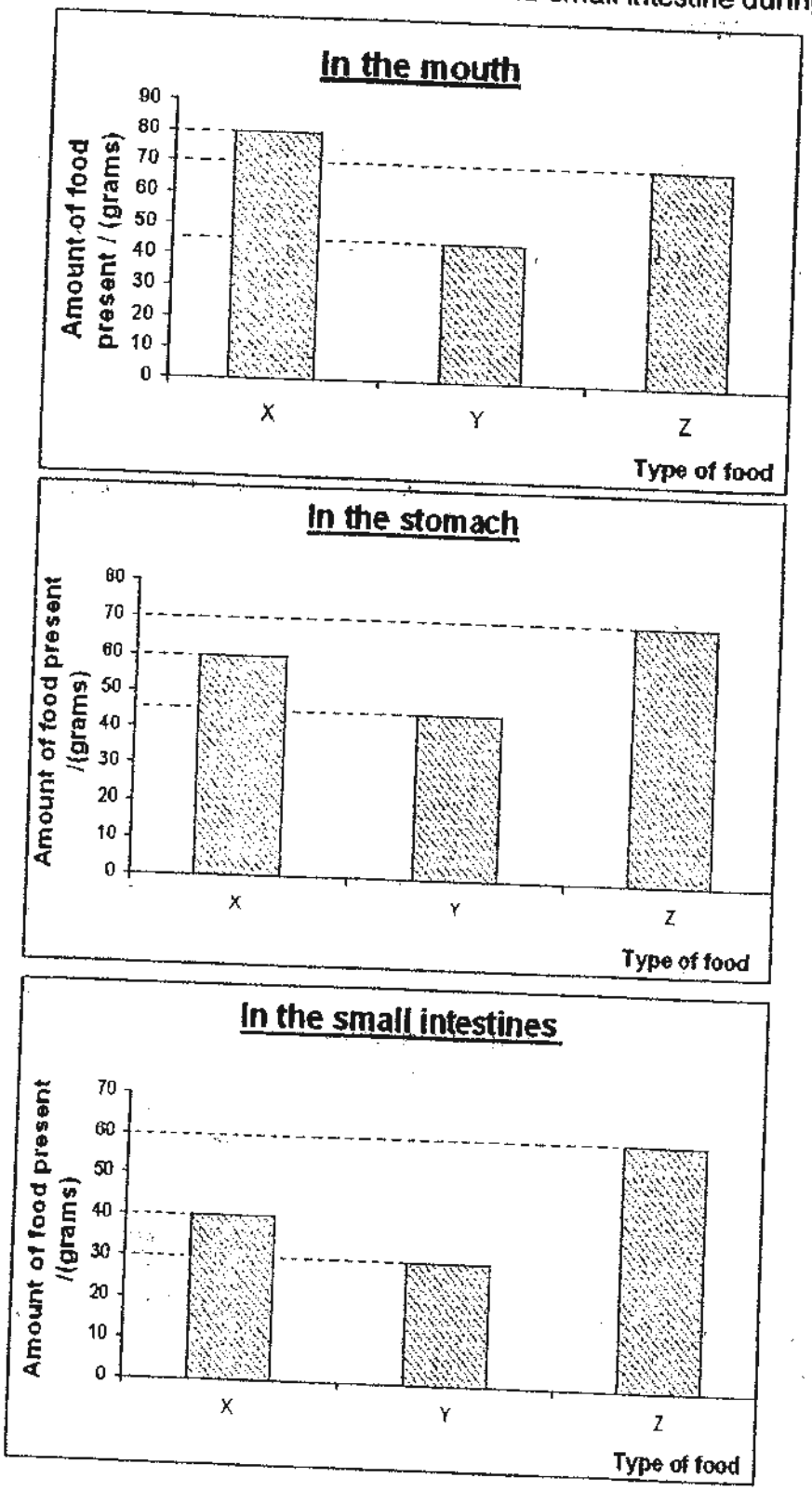
_____

(c) Alicia placed another piece of bread in the freezer.
Would mould grow on the bread? Explain your answer. (1m)

_____

3

18. The following graphs represents three different types of food, X, Y, Z that were digested in the mouth, stomach and small intestine during a period of time.



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(a) Which food was digested in the stomach first? (1m)

_____

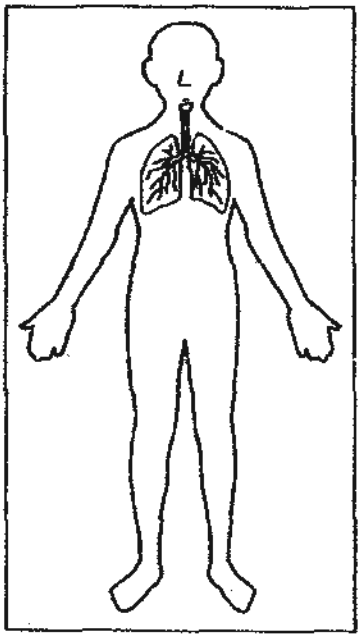
(b) From the graph, which food was the least digested throughout? (1m)

_____

(c) What happened to the undigested food? (1m)

_____

19. Refer to the human respiratory system shown below.



(a) Name the parts that make up the respiratory system. (1m)

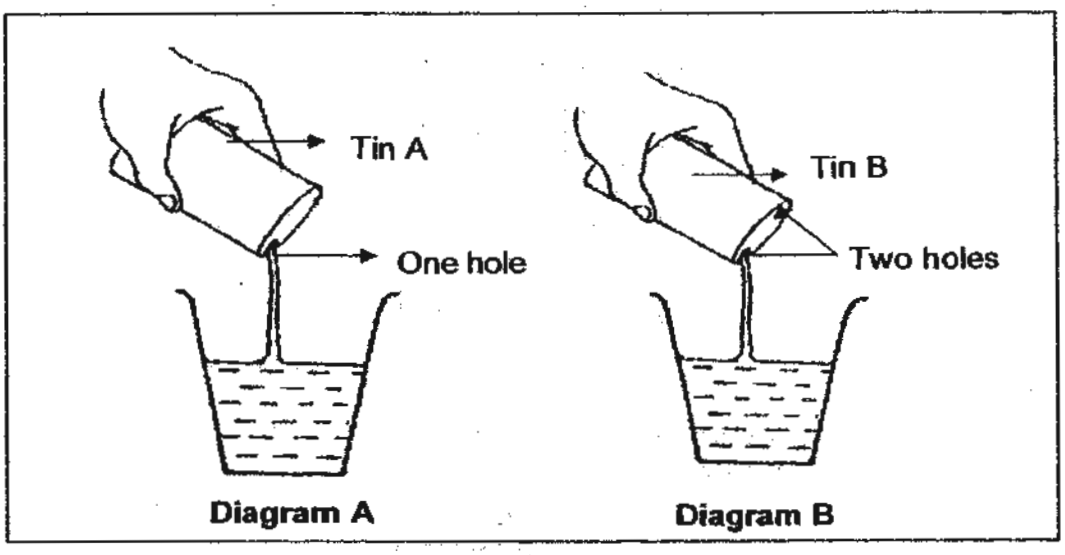
_____

(b) What is the function of the respiratory system? (2m)

_____

_____

20. Beatrice was given two tins of condensed milk. She poured them out using two different methods as shown below in the follow diagrams.



(a) Which tin of condensed milk will flow out faster? (1m)

_____

(b) Explain your reason in (a). (1m)

_____

_____

_____

_____

2

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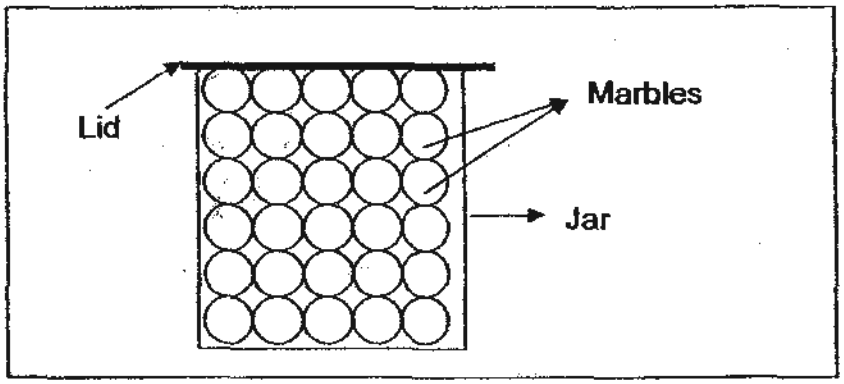
21. Christina filled a jar to the brim with 30 marbles. The total volume of the marbles is 300 cm^3. She then placed a lid on top of the jar to cover it.



a) Refer to the following statements about the volume of the jar. Which of the following statements is/are true? (1m)

Statements	Tick (√)
(i) The volume of the jar is slightly less than 300cm^3	
(ii) The volume of the jar is equal to 300cm^3.	
(iii) The volume of the jar is more than 300cm^3.	

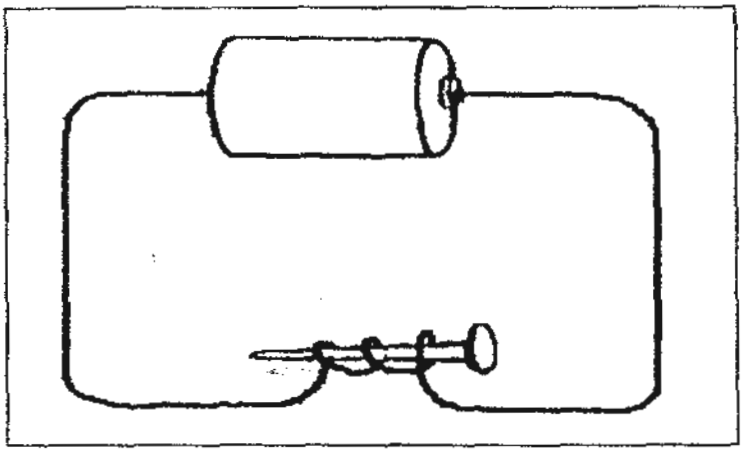
b) Explain your answer in (a) (1m)

Christina's teacher instructed them to find the volume of the air in the glass jar which was filled with 30 marbles as shown above.
Arrange the steps that Christina should take in the **correct** order in the box below. Step 1 has been done for you.
Fill in steps 2, 3 and 4 in the remaining blanks. (1m)

Steps to be taken	Order
Remove all the marbles from the jar.	
Put all the marbles into the jar.	1
Pour water into the jar filled with marbles to the brim.	
Measure the water left in the jar with a measuring cylinder.	

3

22. Ann Qi was given a battery, a steel nail and a piece of insulated copper wire. She made an electromagnet as shown in the following diagram.

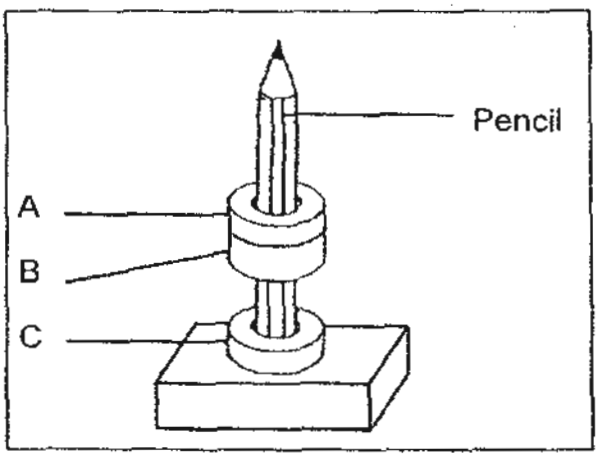


When she put the electromagnet near some iron fillings, she observed that the nail did not attract any iron fillings.

a) Give a possible reason why her electromagnet did not work (1m)

_____

b) Three metal rings, A, B and C, are put through a pencil as shown in the following diagram.



i) Which 2 metal rings, A, B or C are definitely magnets? (1m)

_____

ii) Give a reason for your answer. (1m)

_____

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ANSWER SHEET

EXAM PAPER 2010

SCHOOL: METHODIST GIRLS' SCHOOL
SUBJECT: PRIMARY FOUR SCIENCE

TERM : CONTINUAL ASSESSMENT 1

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

16)a)Insect. Because it has 6 legs. **b)Lady Bird**

17)a)C and D
b)The mould comes from the spores in the air.
c)No, mould needs warmth to grow.

18)a)Type X
b)Type Z
c)It comes out as faeces through the anus.

19)a)The nose, lungs and windpipe.
b)It takes in oxygen and removes carbon dioxide from our body.

20)a)Tin B.
b)Because one hole is for the air to go in, the air that went in will push out the condensed milk and thus it will flow faster

21)a)The volume of the jar is more than 300cm
b)There are air gases in between the marble and the volume of the jar has to be more than 300cm
c) 1—Put all the marbles into the jar
2—Pour water into the jar filled with the marbles to the brim
3—Remove all the marbles from the jar
4—Measure the water left in the jar with a measuring cylinder

22)a)Because the wire was made of copper and there were not enough coils around the nail.
b)i)B and C
ii)Because only magnets can repel each other

— END —
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