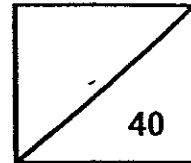




Rosyth School  
Semestral Examination 1 for 2014  
SCIENCE  
Primary 3

Total  
Marks:



Name: \_\_\_\_\_

Class: Pr 3 \_\_\_\_\_ Register No. \_\_\_\_\_ Duration: 1 h 30 min

Date: 15 May 2014

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

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## BOOKLET A

**Instructions to Pupils:**

1. Do not open the booklets until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 booklets, Booklet A and Booklet B.
4. For questions 1 to 20 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS) provided using a 2B pencil.
5. For questions 21 to 32, give your answers in the spaces given in Booklet B.

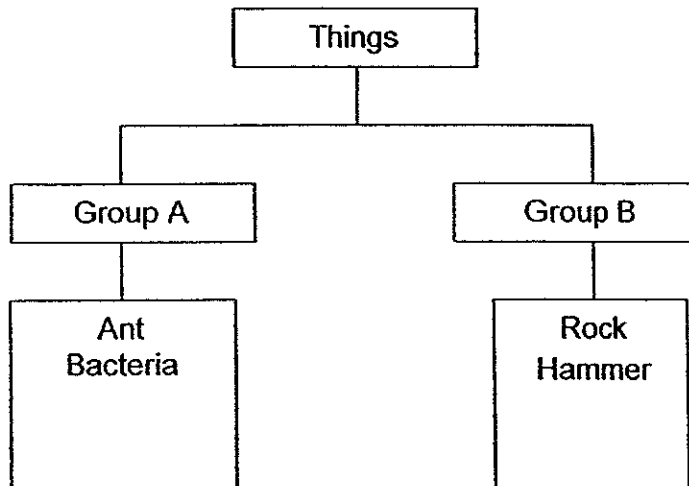
\* This booklet consists of 11 pages.

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (40 marks)

1. Which one of the following statements is not true of all living things?

- (1) They respond to changes.
- (2) They can reproduce and die.
- (3) They can make their own food.
- (4) They can move by themselves.

2. Study the classification diagram below.



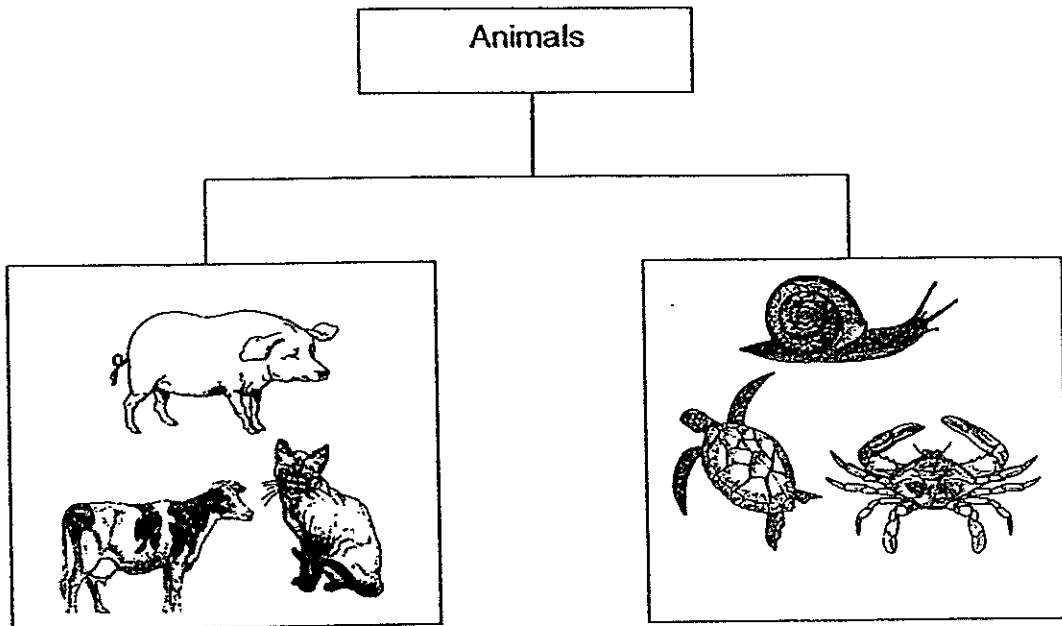
Which of the following thing/s can be classified under Group A?

- A: Dog
- B: Teddy bear
- C: Bench
- D: Hibiscus plant

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



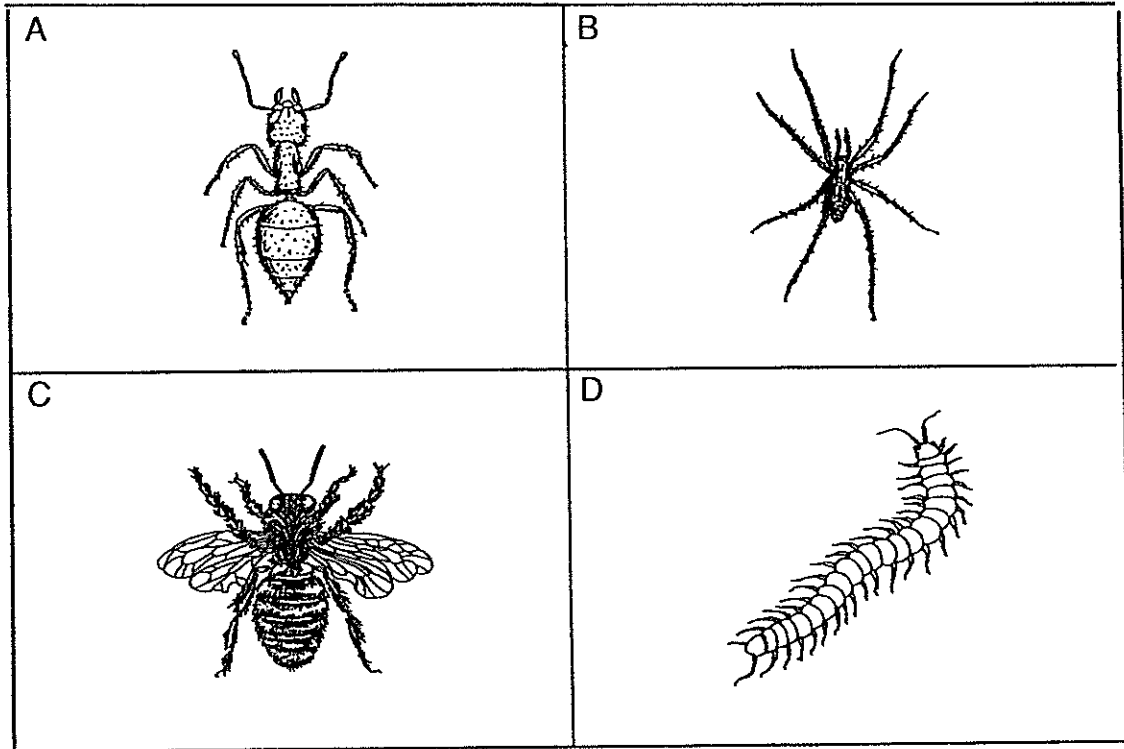
5. Some animals are grouped as shown below.



Which of the following is a possible grouping for the animals in the chart above?

- (1) They are grouped according to what they eat.
- (2) They are grouped according to where they live.
- (3) They are grouped according to their outer covering.
- (4) They are grouped according to how they move about.

6. The diagram below shows some animals.



Which of these animals are insects?

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

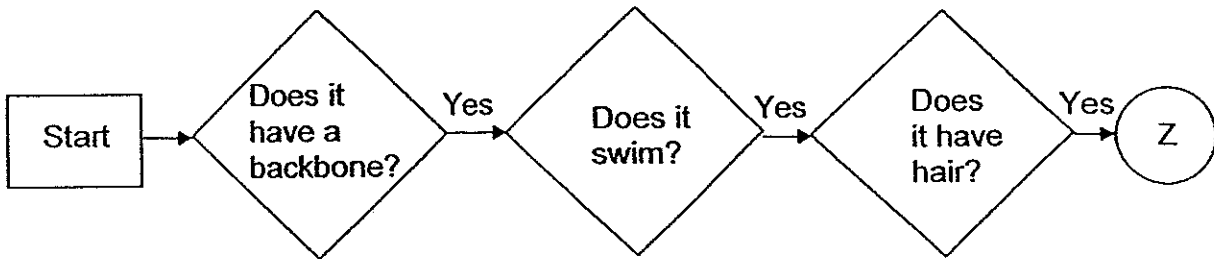
7. Study the description of an animal given below.

Description of animal  
It has feathers.  
It has a pair of wings.  
It reproduces by laying eggs.

Which one of the following groups of animals does the animal belong to?

- |             |            |
|-------------|------------|
| (1) Bird    | (2) Fish   |
| (3) Reptile | (4) Insect |

8. Study the flow chart below.



Which animal group does Z belong to?

- (1) Fish
- (2) Insect
- (3) Mammal
- (4) Amphibian

9. Ethan wanted to send a pot of plant to his aunt living in London. He carefully packed the pot of plant in a box and sealed it before sending it. When his aunt received the pot of plant one week later, she discovered that it had died. Which of the following explained what had happened?

- A: It was too dark in the box.
- B: It was too warm in the box.
- C: The plant did not receive water.
- D: The plant did not have enough air.

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

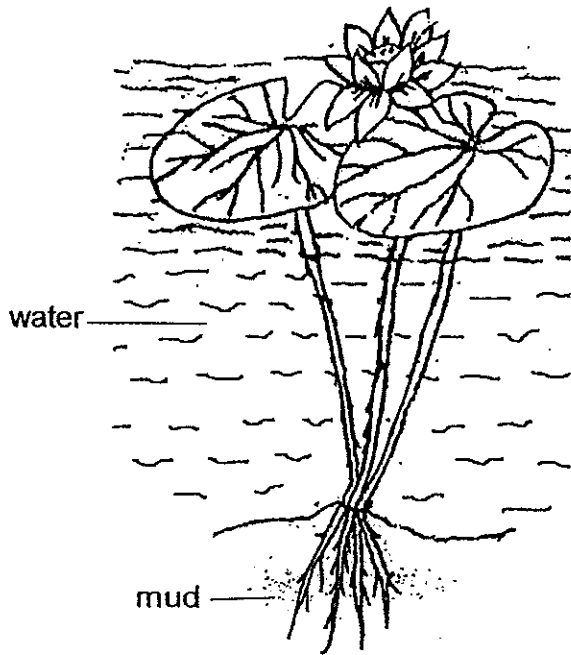
10. 4 children each wrote a sentence to describe a living thing.

- Alice: It is green.
- Bobby: It can reproduce.
- Charlie: It makes its own food.
- Danny: It needs air, water and food.

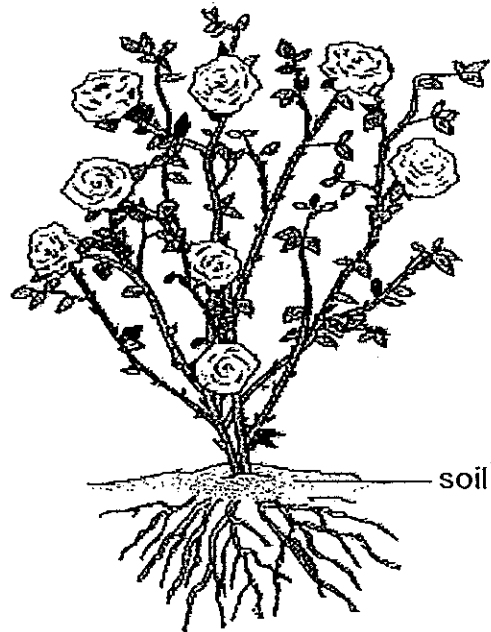
Which child's statement tells us that the living thing is a plant?

- (1) Alice
- (2) Bobby
- (3) Charlie
- (4) Danny

11. Look at the pictures below.



Water lily

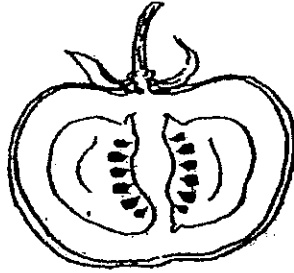


Rose plant

The water lily and rose plant have similar characteristics. How are they similar?

- 1) Both are land plants.
- 2) Both are water plants.
- 3) Both are flowering plants.
- 4) Both are non-flowering plants.

12. Study the diagram below.



By looking at the diagram of the cross-section of the tomato, you can say that the tomato \_\_\_\_\_.

- A: is red
- B: is sweet
- C: has several seeds

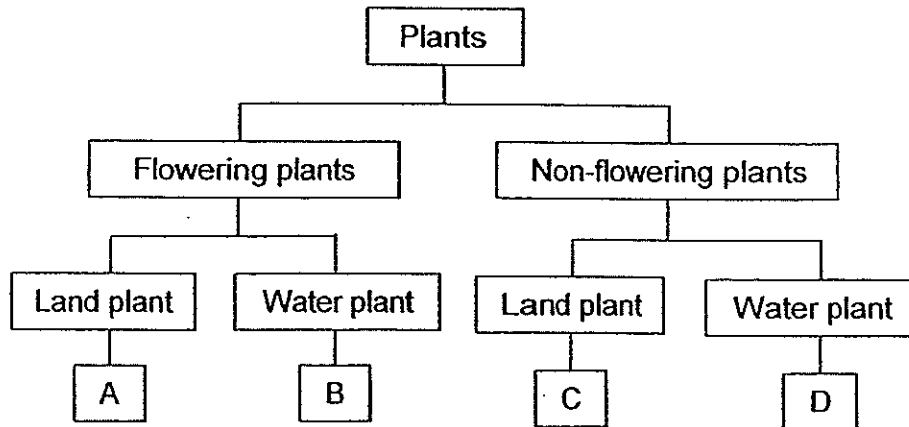
- (1) A only
- (2) C only
- (3) A and B only
- (4) B and C only

13. Afiq recorded the following statements about the characteristics of bacteria. Which of the above statement is correct?

- (1) They are living things.
- (2) They reproduce by spores.
- (3) All bacteria are harmful to us.
- (4) All bacteria can make their own food.



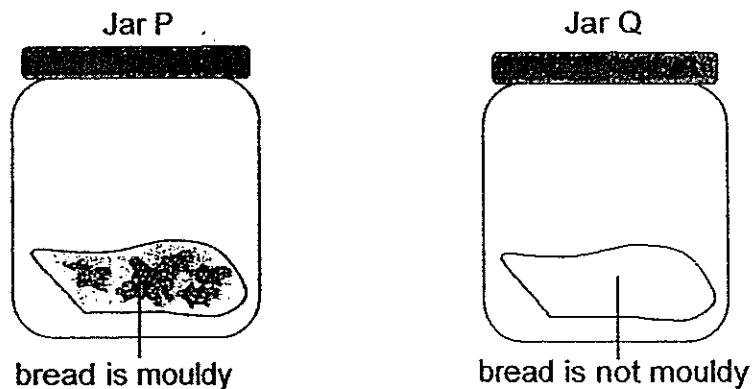
14. Study the classification diagram below.



Sarah saw a plant growing on a tree. She found spores on the underside of its leaves. Based on the classification diagram, which one of the following groups can this plant be placed in?

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

15. John placed one slice of bread in jar P and toasted another slice of bread before putting it in jar Q. Then he covered the jars tightly. The pictures below show the results of the experiment after five days.



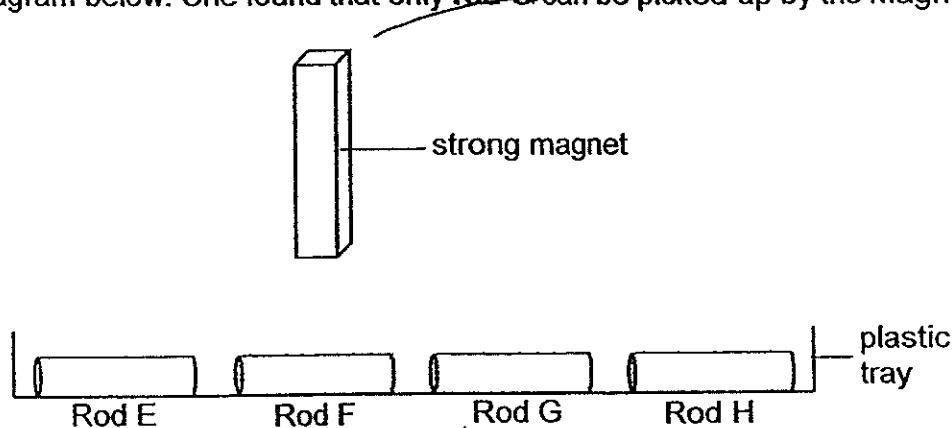
Based on the experiment above, which of the following statement/s is/are true?

- A: Bread mould needs water to grow.  
 B: Bread mould needs air to grow well.  
 C: Bread mould can make its own food.

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



18. Tiara had four rods E, F, G and H which are made of different materials. She tried to pick up each rod from a plastic tray using a strong magnet as shown in the diagram below. She found that only **rod G** can be picked up by the magnet.



What material is rod G likely to be made of?

- (1) Wood
- (2) Steel
- (3) Plastic
- (4) Aluminium

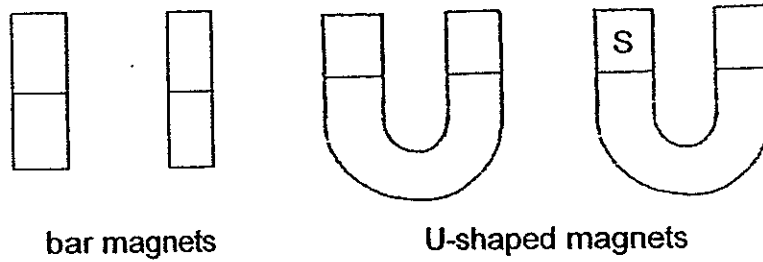
19. Study the classification table below.

Group X	Group Y
light bulb glass fish tank	metal spoon wooden table

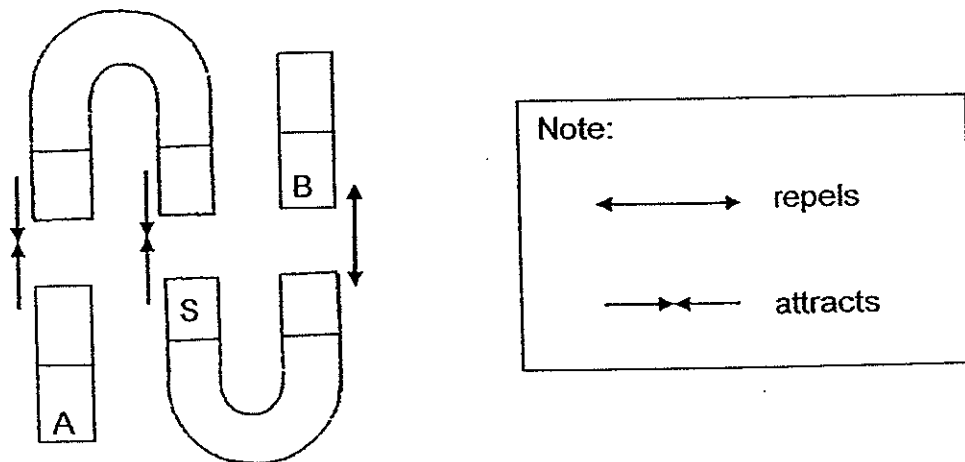
How are the objects in Group X and Y classified?

- (1) According to their strength
- (2) According to their flexibility
- (3) According to their transparency
- (4) According to their ability to float or sink in water

20. David has four magnets as shown below. He only labelled one south-pole of a U-shaped magnet, 'S', as shown in the diagram below.



He arranges the four magnets and notes his observations as shown in the diagram below.



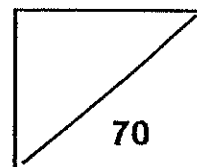
What could the poles at A and B be?

	A	B
1)	North	North
2)	North	South
3)	South	South
4)	South	North

**End of Booklet A**



Rosyth School  
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SCIENCE  
Primary 3



Name: \_\_\_\_\_

Total  
Marks:

Class: Pr 3 \_\_\_\_\_ Register No. \_\_\_\_\_ Duration: 1 h 30 min

Date: 15 May 2014

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

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## BOOKLET B

**Instructions to Pupils:**

For questions 21 to 32, give your answers in the spaces given in this Booklet B.

	Maximum	Marks Obtained
Booklet A	40 marks	
Booklet B	30 marks	
Total	70 marks	

\* This booklet consists of 10 pages.

For questions 21 to 32, write your answers in this booklet. (30 marks)

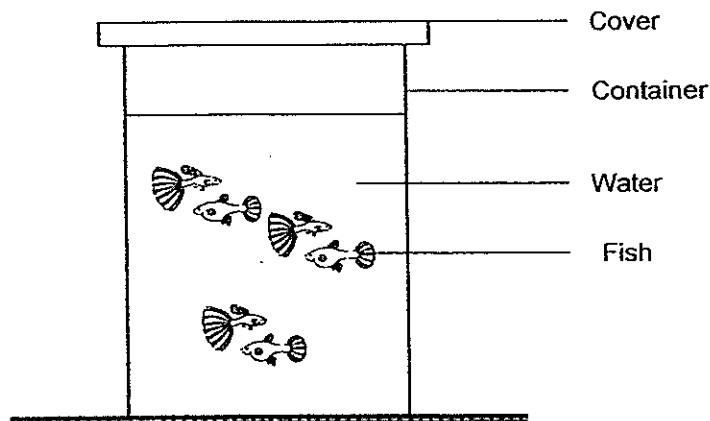
21. Suzy told Jialing that her baby brother would close his eyes and turn away whenever she blows into his face.

Based on what Suzy had told Jialing, state two characteristics of living things that can be observed from the above. (2m)

Characteristic 1: \_\_\_\_\_

Characteristic 2: \_\_\_\_\_

22. Siti set up a mini aquarium for her class. She filled a glass container with water and put six fishes in it. She put in some fish food and placed a cover over the container. After one week, she found that all the six fishes in the container had died.



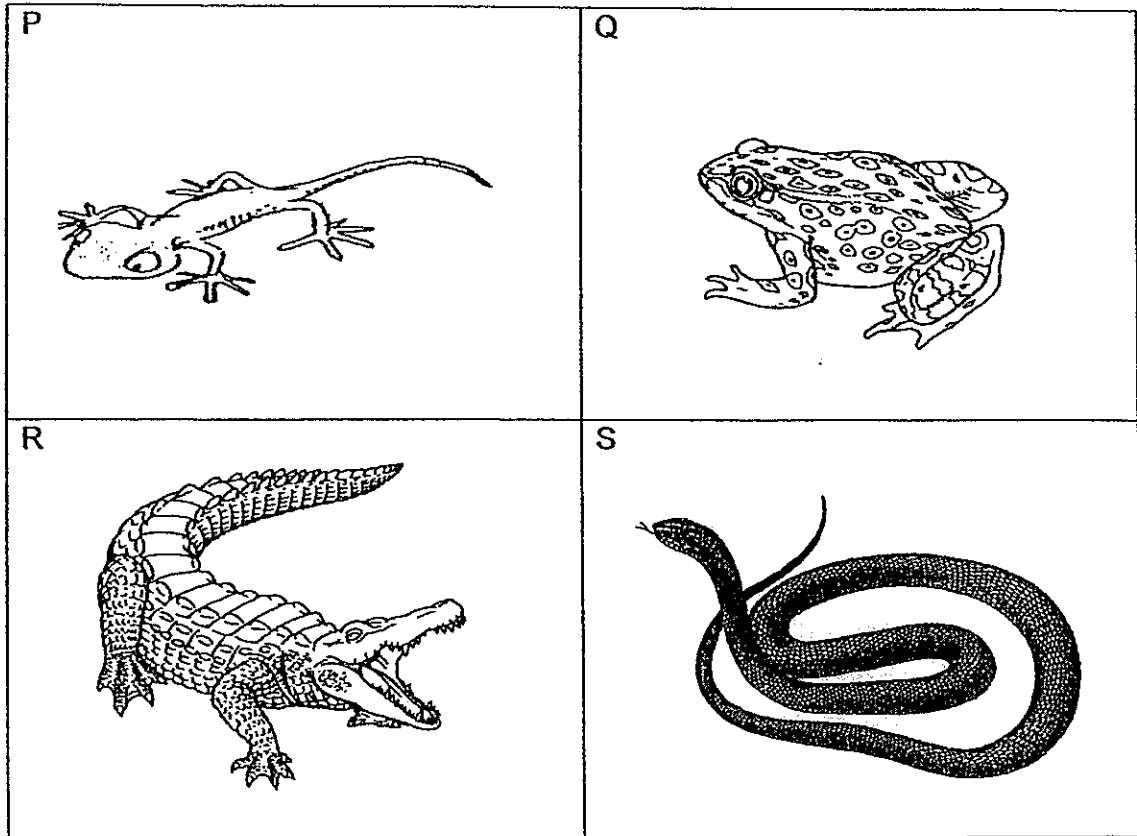
- (a) Why did the fishes die? (1m)

\_\_\_\_\_  
\_\_\_\_\_

- (b) What should Siti have done to prevent the fishes from dying? (1m)

\_\_\_\_\_  
\_\_\_\_\_

23. The pictures below show four animals, P, Q, R and S.



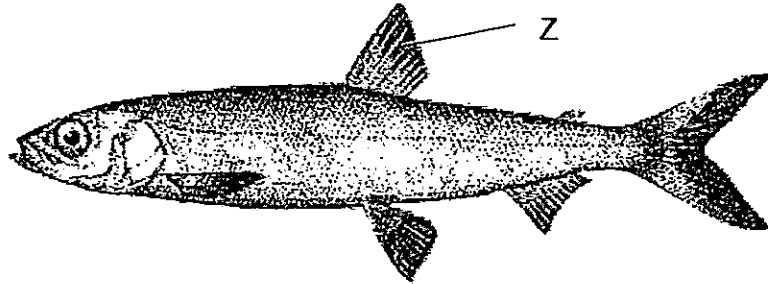
(a) Animals P, R and S belong to the reptile group. What is their outer-body covering? (1m)

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(b) Which animal group does animal Q belongs to? (1m)

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24. A diagram of a fish is shown below.



(a) Name the part Z and state its function. (2m)

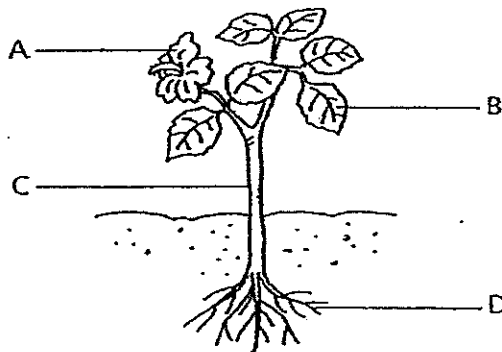
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(b) Which part of the fish helps it to breathe? (1m)

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25. Look at the diagram of the plant shown below.



(a) Name part D. (1m)

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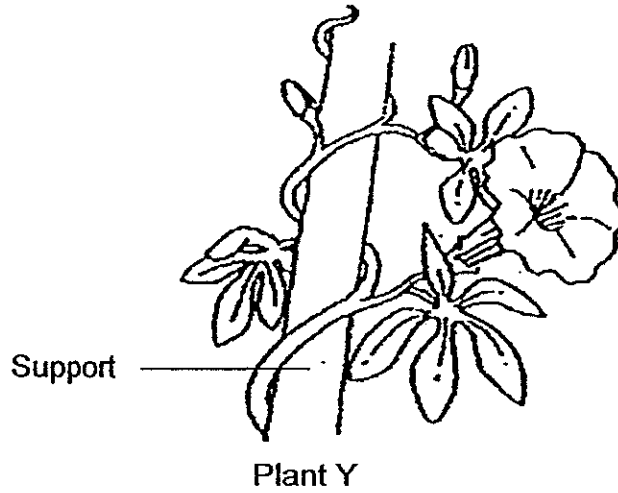
(b) What is the function of part B? (1m)

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26. Study the picture below carefully.



(a) What kind of stem does Plant Y have? (1m)

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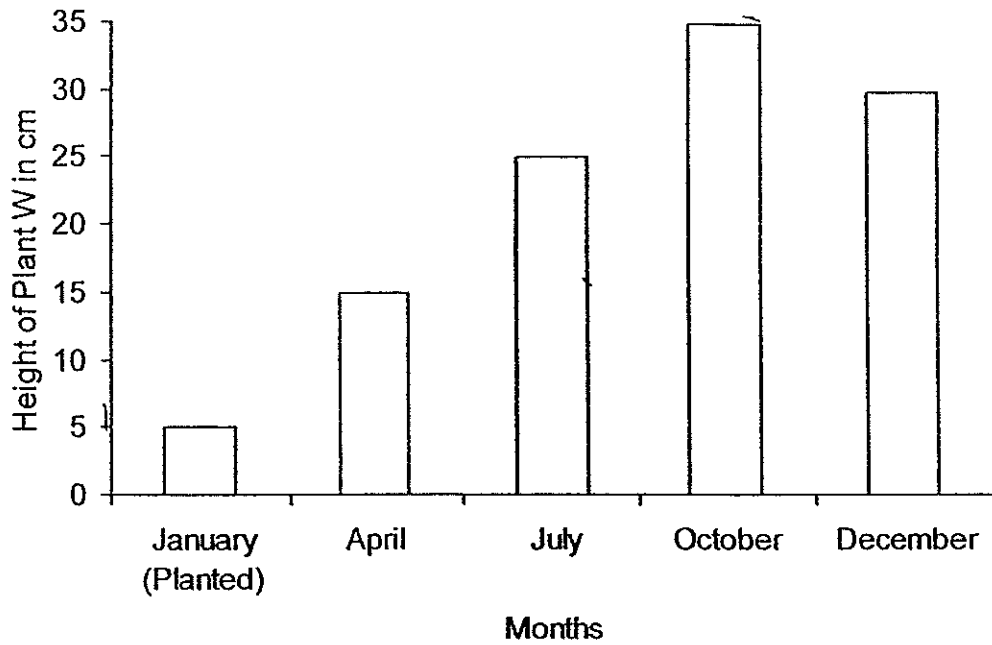
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(b) Why does Plant Y need to be upright? (1m)

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27. The graph below shows the height of Plant W over 12 months. The height of the plant is recorded at the beginning of each month.



- (a) What was the height of Plant W in January? (1m)

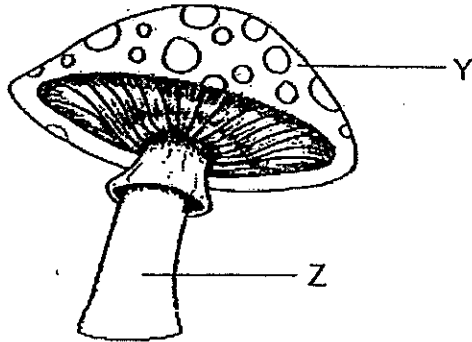
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- (b) Based on the graph above, what can you conclude about the height of Plant W over the 12 month period? (1m)

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28. Look at the diagram of the mushroom shown below.



(a) Name the parts of the mushroom. (1m)

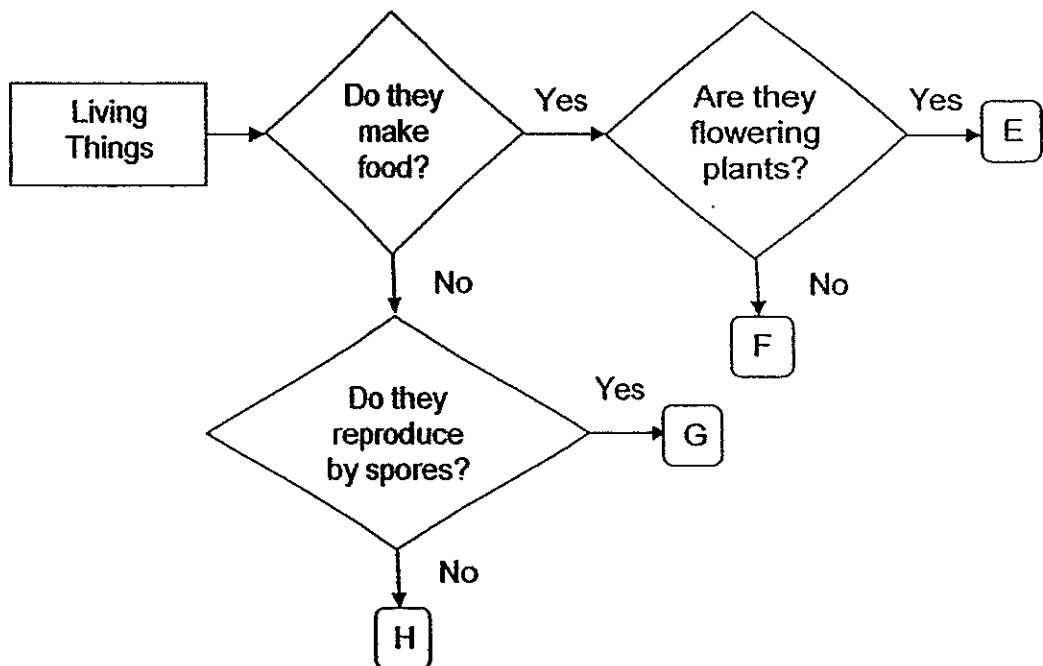
Y: \_\_\_\_\_

Z: \_\_\_\_\_

(b) How does mushroom reproduce? (1m)

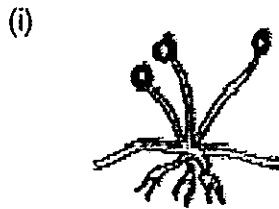
\_\_\_\_\_  
\_\_\_\_\_

29. The flow chart below shows how living things are classified.

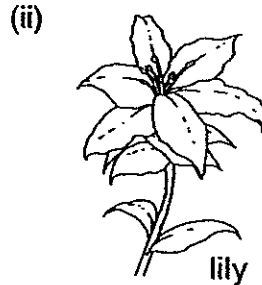


Question 29 continues on page 7

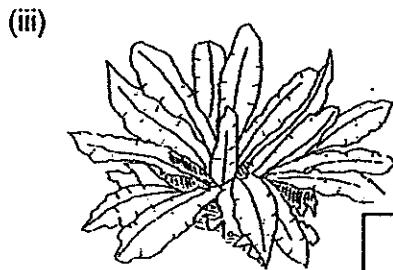
(a) Which of the above letters (E, F, G or H) best represent the following living things? Write E, F, G or H in each of the boxes provided. (2m)



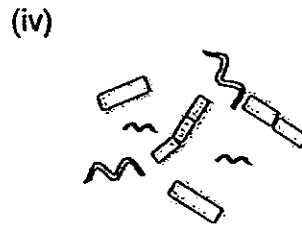
bread mould



lily



fern



bacteria

(b) Based on the flow chart above, state a difference between living things, E and F. (1m)

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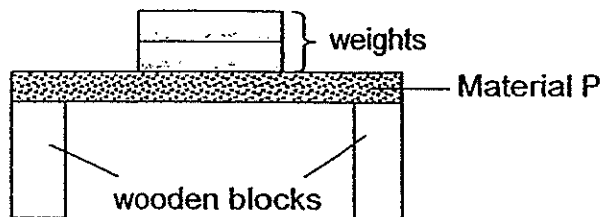
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(c) Diana said that toadstool should be placed in living thing H. Do you agree with her? Give a reason for your answer. (1m)

---

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30. Jacky carried out an experiment with 4 pieces of materials, P, Q, R and S. He placed material P on top of two wooden blocks. Then, he kept adding weights to the centre of each material as shown in the diagram below, until the piece of material broke. He repeated the experiment for the rest of the materials Q, R and S.



The table below shows the amount of weight required to break each material.

Materials	Amount of weight required to break the material (kg)
P	9
Q	18
R	5
S	13

- (a) Arrange the materials (P, Q, R and S) according to their strength. Start from the strongest. (1m)

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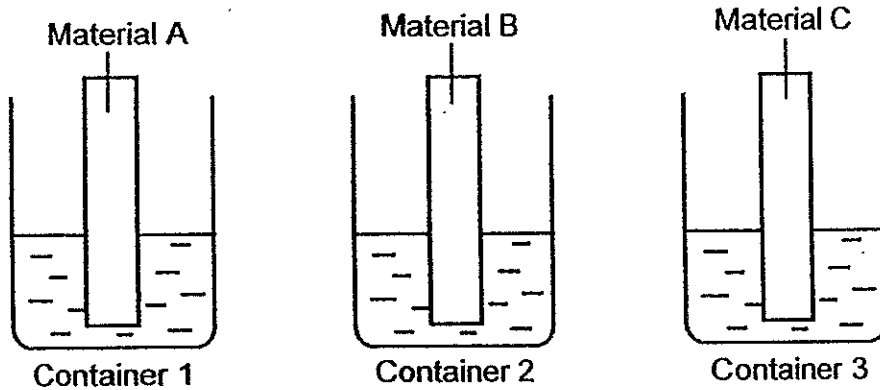
- (b) Based on the information given in the table above, which material (P, Q, R or S) is most suitable for making a box to carry heavy objects? Support your choice. (1m)

---



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31. Amelia placed three pieces of material A, B and C (30g each) into 3 containers, 1, 2 and 3 as shown in the diagram below. Each container contains 100 ml of water. After 15 minutes, Amelia removed the materials and measured the amount of water left in the containers.



The table below records the amount of water left in the containers.

Containers	1	2	3
Amount of water left in the container (ml)	20	70	100

- (a) At the end of the experiment, material A was the heaviest? Explain why. (1m)

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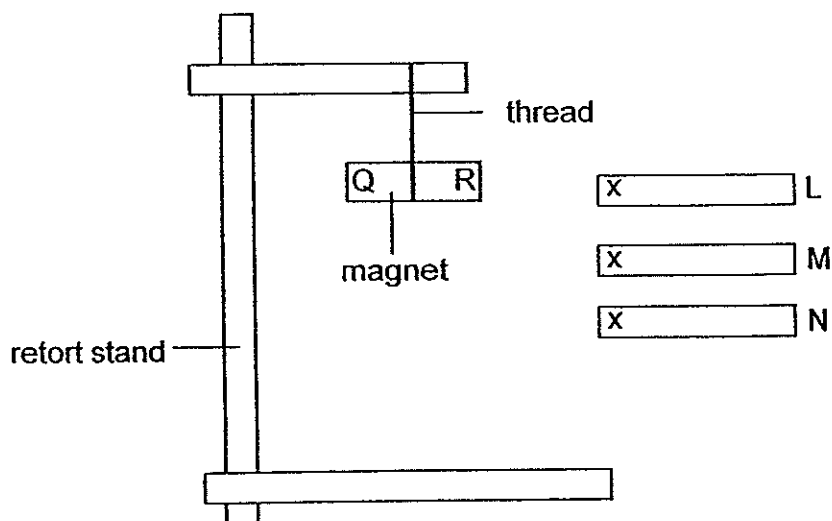
- (b) Which material (A, B or C) is most suitable for making a raincoat? Explain your choice. (2m)

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32. Tim hung a magnet freely from a retort stand using a piece of thread as shown below. He then moved the ends of the objects L, M and N marked with 'x' near the poles of the magnet, Q and R.



He then recorded his observations as shown below.

Object L was attracted to Q and R. It does not repel Q and R.

Object M was not attracted to Q and R. It does not repel Q and R.

Object N was not attracted to Q but was attracted to R. It repelled Q but does not repel R.

- (a) Based on the results, which of the following objects (L, M or N) is most likely to be a magnet, an iron nail and aluminium foil respectively? (3m)

(i) Magnet : \_\_\_\_\_

(ii) Iron nail : \_\_\_\_\_

(iii) Aluminium foil : \_\_\_\_\_

- (b) Can the iron nail be made into a temporary magnet? Explain why. (1m)

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End of Paper





**EXAM PAPER 2014**

**LEVEL : PRIMARY 3**  
**SCHOOL : ROSYTH SCHOOL**  
**SUBJECT : SCIENCE**  
**TERM : SA1**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	4	1	3	2	1	3	4	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
3	2	1	3	1	3	4	2	3	4

Q21		Characteristic 1: Living things move.
		Characteristic 2 : living things respond to changes in the environment.
Q22	(a)	There was no air.
	(b)	Place a water plant in the glass container or air pump.
Q23	(a)	Scales
	(b)	Amphibian
Q24	(a)	Fin. To help the fish swim, balance and steer their bodies in the water.
	(b)	Gills
Q25	(a)	Roots
	(b)	It helps the plant to make food.
Q26	(a)	A weak stem
	(b)	To get sunlight
Q27	(a)	5 cm
	(b)	The height of plant W increased from January to October and decreased between October and December.
Q28	(a)	Y : cap Z: stalk
	(b)	A mushroom reproduce by spores.
Q29	(a)	(i) G (ii) E (iii) F (iv) H
	(b)	Living thing E is a flowering plant but living thing F is not a flowering plant.
	(c)	No. Toadstool reproduces by spores and living thing H does not reproduce by spores.
Q30	(a)	Q, S, P, R
	(b)	Material Q. It is the strongest material as it could hold the most weights before it broke.



Q31	(a)	It absorbed most water.
	(b)	Material C. It is waterproof cause it does not absorb any water.
Q32	(a)	(i) Magnet : N (II) Iron Nail : L (III) Aluminium foil : M
	(b)	Yes. It is a magnetic material.

