

W92

**TAO NAN SCHOOL****P3 Science Practice Paper**

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

Class: P3 ( )

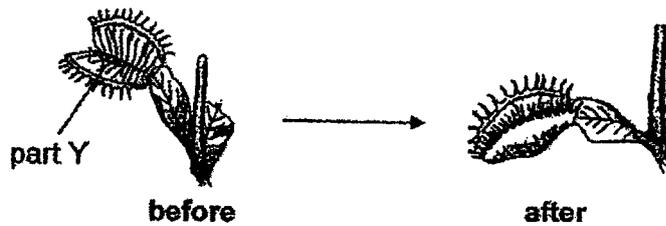
Date: \_\_\_\_\_

**Booklet A (17 x 2 marks)**

For each question from 1 to 17, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(34 marks)

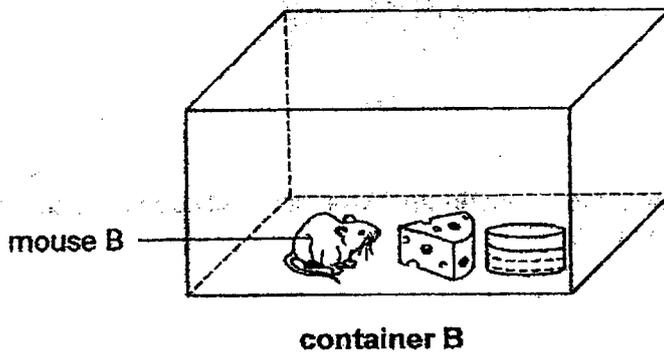
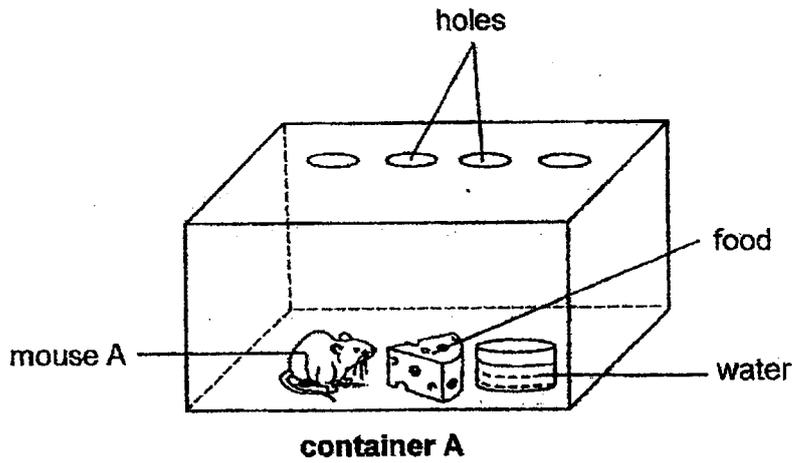
1. Sally observed a plant in her school garden.



When a fly landed on the plant, part Y closed up. What can Sally conclude about living things from her observation above?

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

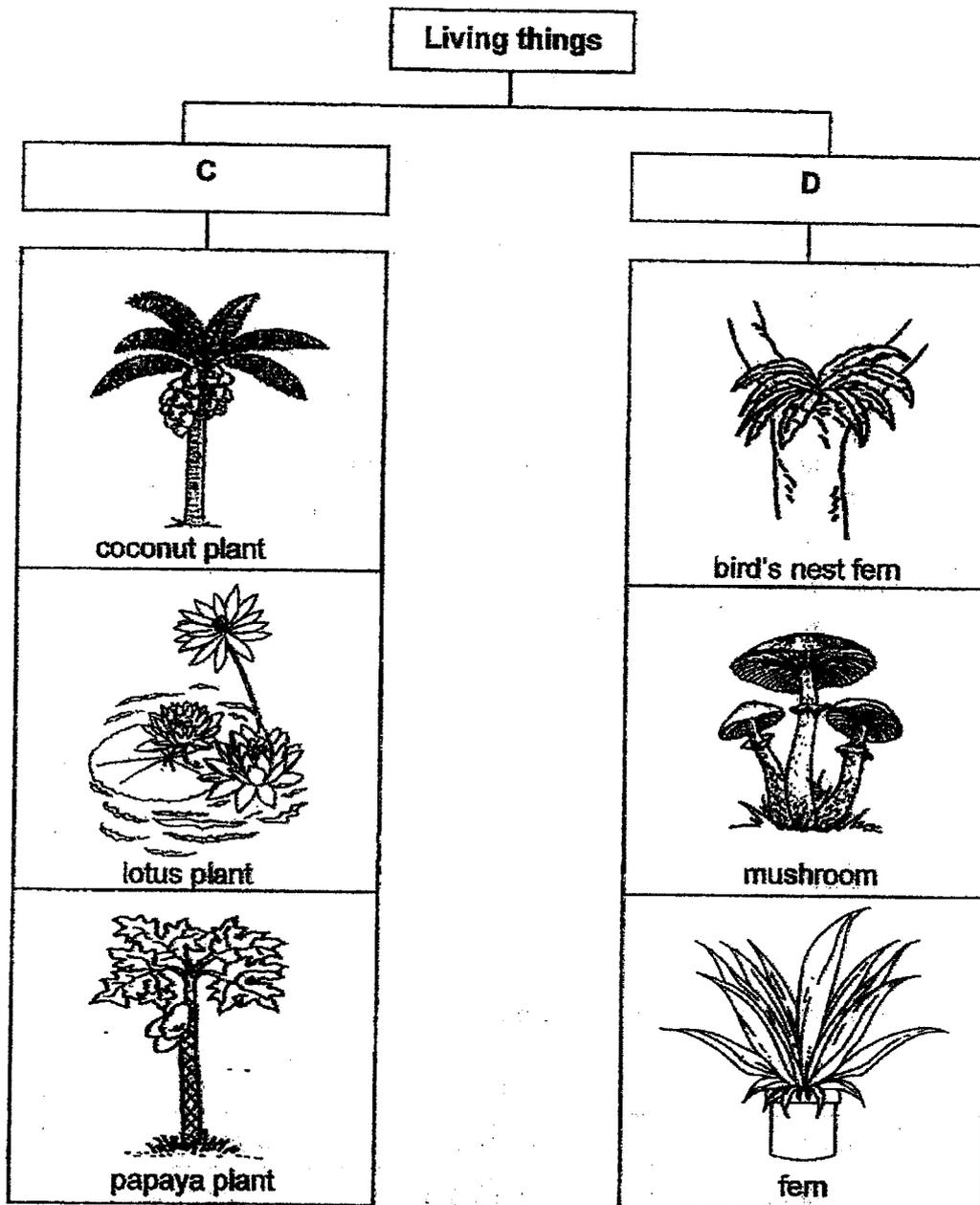
2. Sarah placed two mice in two glass containers as shown in the diagrams below.



Which mouse would most probably live longer? Why?

	Mouse	Reason
(1)	A	It has food and water.
(2)	A	It has air, food and water.
(3)	B	It has food and water.
(4)	B	It has air, food and water.

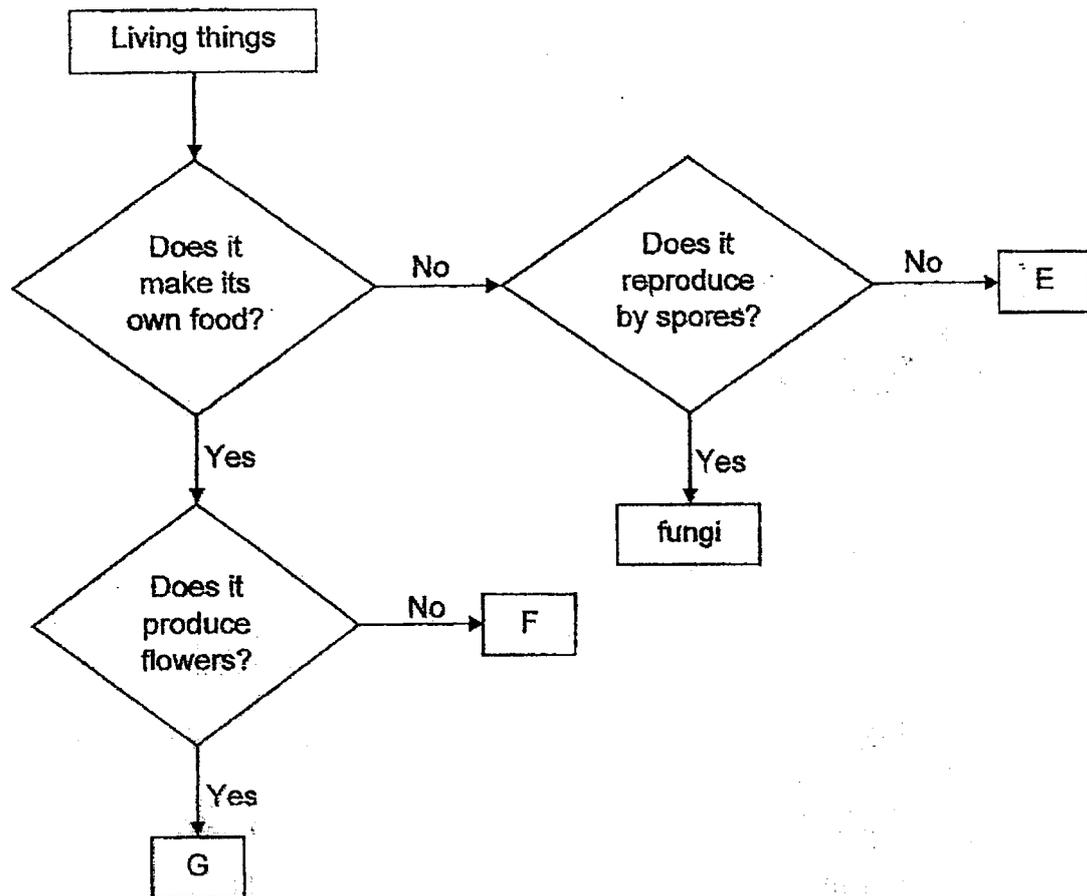
3. The diagram below shows the classification of living things.



Which of the following correctly describes C and D?

	<b>C</b>	<b>D</b>
(1)	has leaves	does not have leaves
(2)	can reproduce	cannot reproduce
(3)	can make its own food	cannot make its own food
(4)	reproduces by seeds	reproduces by spores

4. Study the flow chart below.



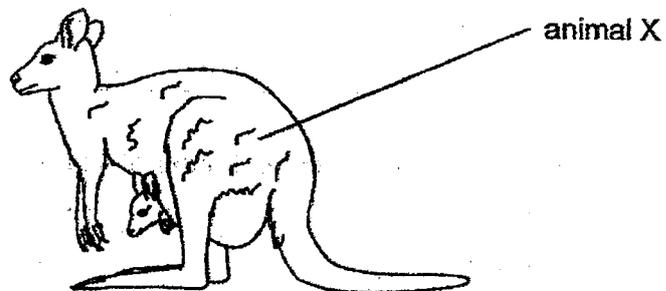
Which of the following could E, F and G be?

	E	F	G
(1)	bacteria	animal	flowering plant
(2)	animal	non-flowering plant	bacteria
(3)	animal	non-flowering plant	flowering plant
(4)	bacteria	flowering plant	non-flowering plant

5. The table below shows how animals can be grouped.

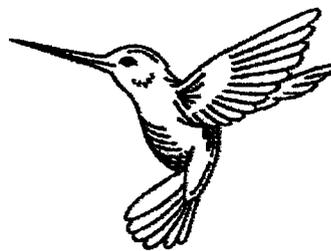
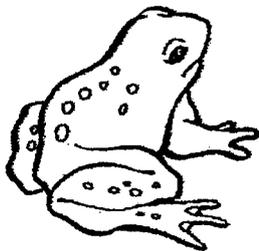
	Gives birth	Lays eggs
Has a tail	H	J
Does not have a tail	K	L

The diagram below shows animal X.



Which group does animal X belong to?

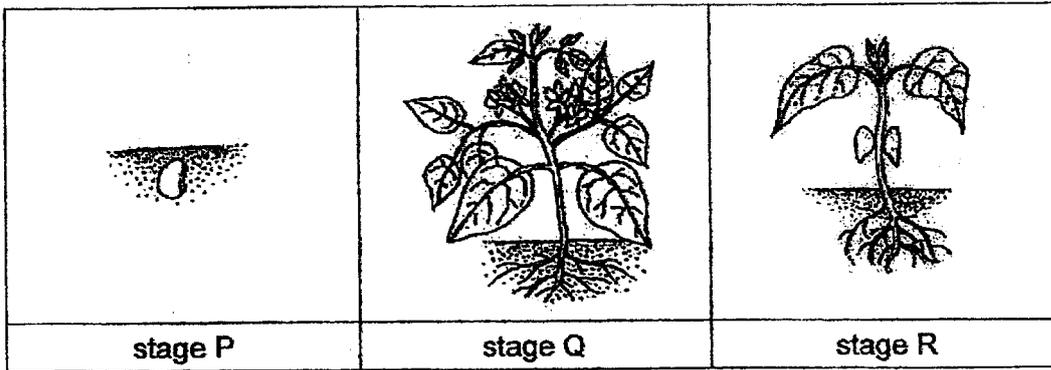
- (1) H
  - (2) J
  - (3) K
  - (4) L
6. The diagrams show two animals.



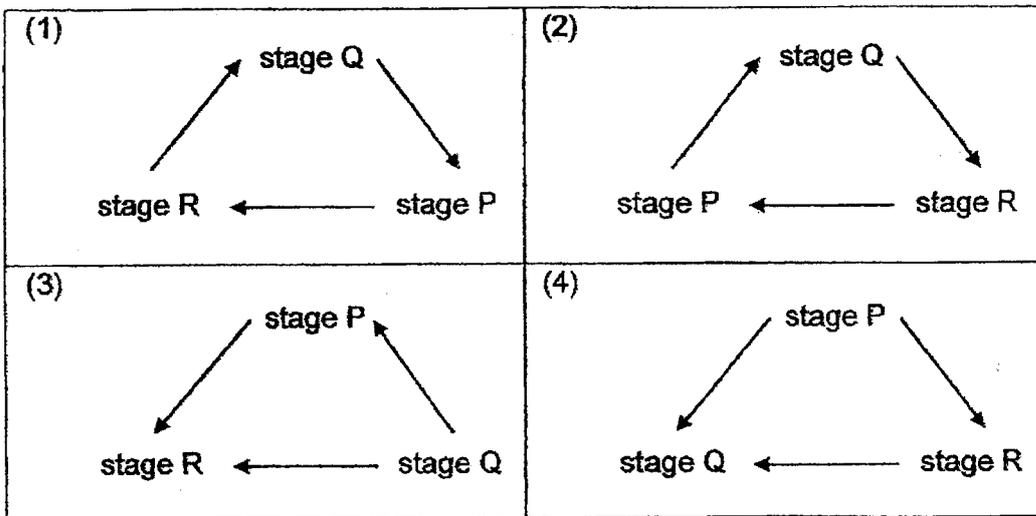
How are the animals similar?

- (1) They have a beak.
- (2) They have feathers.
- (3) They have moist skin.
- (4) They reproduce by laying eggs.

7. The diagram shows different stages in the life cycle of a plant.



Which of the following shows the correct order of its life cycle?



8. Jake made some observations about the parts present in plant S.

Part of plant	Plant S
leaf	✓
stem	✓
flower	x
fruit	✓

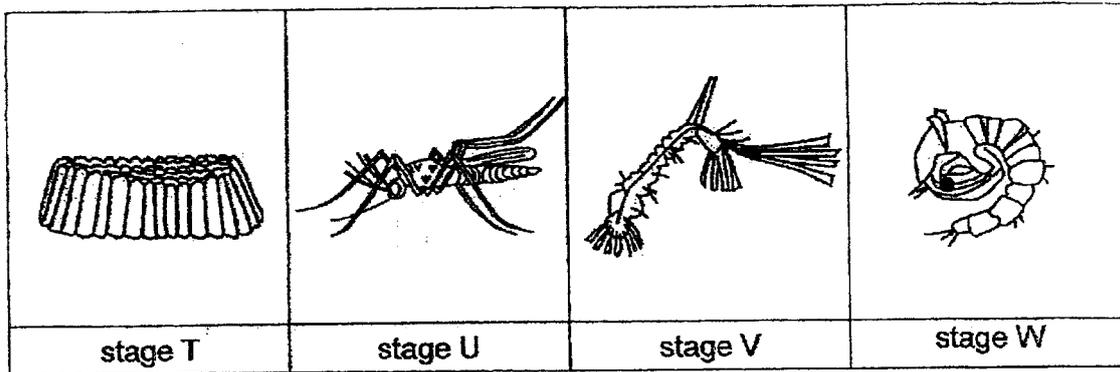
Key

✓ : present  
x : absent

Using only the information in the table above, identify the stage plant S is in and explain why.

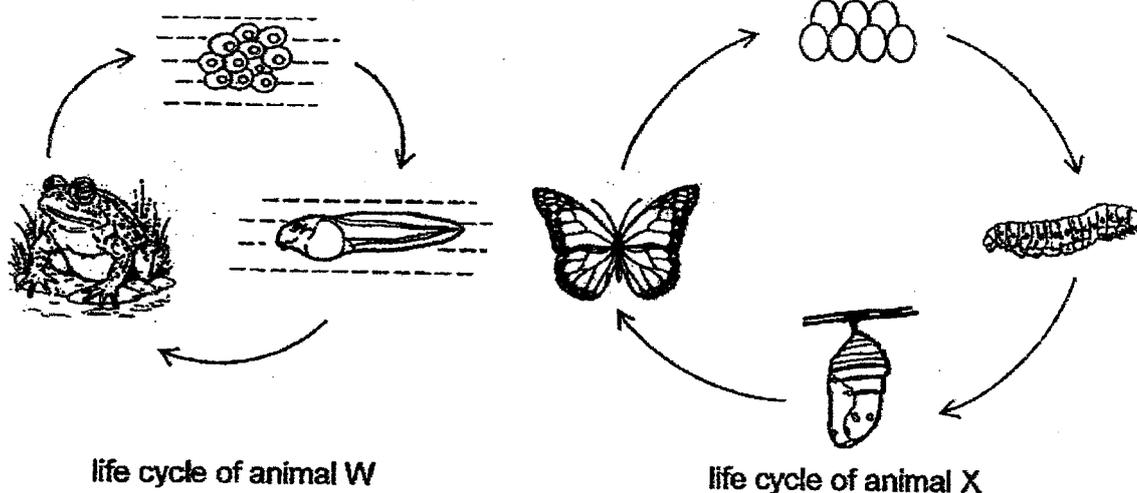
	Stage	Explanation
(1)	young plant	Plant S has leaves.
(2)	young plant	Plant S does not have flowers.
(3)	adult plant	Plant S has fruits.
(4)	adult plant	Plant S has flowers.

The diagram shows different stages in the life cycle of a mosquito. Use it to answer questions 9 and 10.



9. At which stage(s) does the mosquito live in water?
- (1) V only
  - (2) W and V only
  - (3) T, V and W only
  - (4) U, V and W only
10. Which of the following statements is true?
- (1) The mosquito moults only in stage V.
  - (2) The mosquito eats a lot only in stage W.
  - (3) The mosquito moults in both stages V and W.
  - (4) The mosquito eats a lot in both stages V and W.

11. Study the life cycles of animals, W and X, below.



Based on the life cycles shown above, which of the following statements is false?

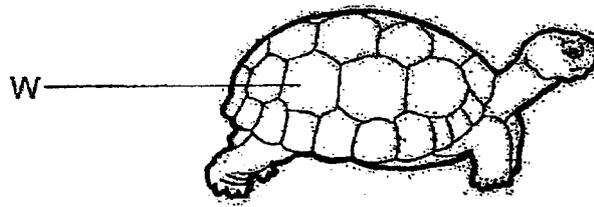
- (1) Both their young live on land.
  - (2) Both animals have an egg stage.
  - (3) Both their young do not resemble the adult.
  - (4) Animal X has a pupal stage while animal W does not.
12. Ali, Betty, Chandra and De Hua recorded their observations of an animal below.

- Ali : The animal has a 4-stage life cycle.
- Betty : The young of the animal resembles its adult.
- Chandra : The animal lives on land throughout its life cycle.
- De Hua : The animal stops eating when it is in the pupal stage.

Which of the students made the correct observations of a mealworm beetle?

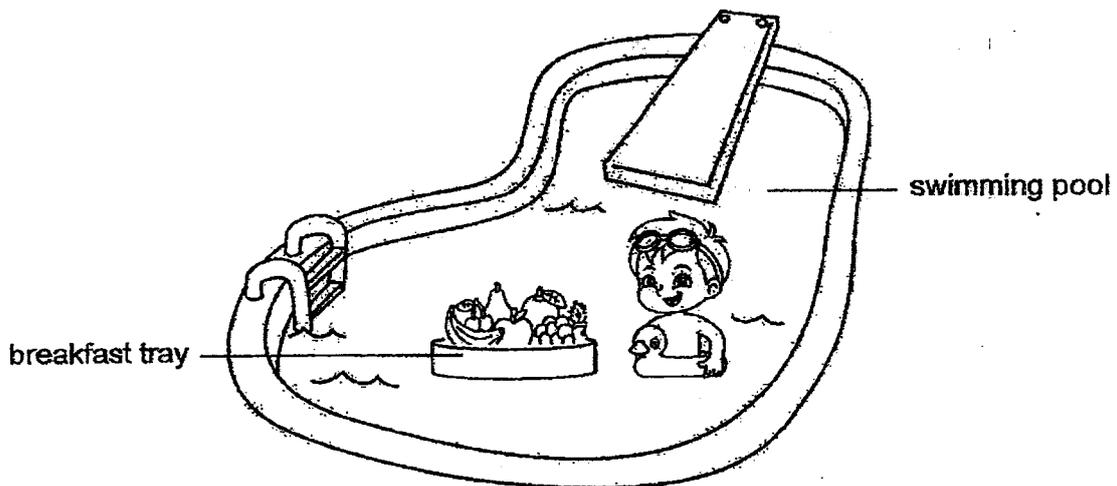
- (1) Ali and Betty
- (2) Betty and De Hua
- (3) Ali, Betty and Chandra
- (4) Ali, Chandra and De Hua

13. A turtle is covered in a shell made of material W. The shell supports the body and protects the internal organs of the turtle.



Which property of material W does the shell have?

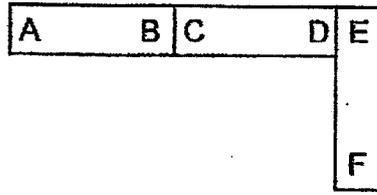
- (1) strength
  - (2) flexibility
  - (3) waterproof
  - (4) ability to float on water
14. Max used a breakfast tray to put some fruits so that he could enjoy his breakfast in the swimming pool.



Which material, A, B, C or D, could the breakfast tray be made of?

		Property of Materials		
	Material	Is it flexible?	Is it waterproof?	Does it float on water?
(1)	A	yes	no	no
(2)	B	no	yes	no
(3)	C	yes	yes	yes
(4)	D	no	yes	yes

15. Study the arrangement of the magnets as shown.

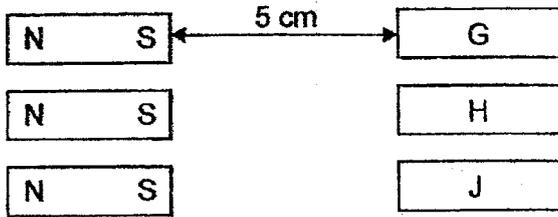


Which of the following arrangements is possible?

<p>(1)</p> <p>The diagram shows a horizontal bar with segments A, B, and F. A vertical bar with segments D, C, and E is attached to the right side of segment B.</p>	<p>(2)</p> <p>The diagram shows a horizontal bar with segments E, D, C, and A. A vertical bar with segments F and B is attached to the right side of segment D.</p>
<p>(3)</p> <p>The diagram shows a horizontal bar with segments A, E, and F. A vertical bar with segments B, C, and D is attached to the right side of segment A.</p>	<p>(4)</p> <p>The diagram shows a horizontal bar with segments D, C, B, E, and F. A vertical bar with segment A is attached to the right side of segment C.</p>

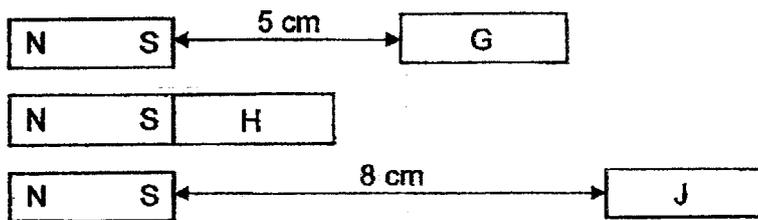
16. Mr Lim tested the properties of three unknown objects, G, H and J. He used three identical magnets that are fixed to a position 5 cm away from the objects.

**before**



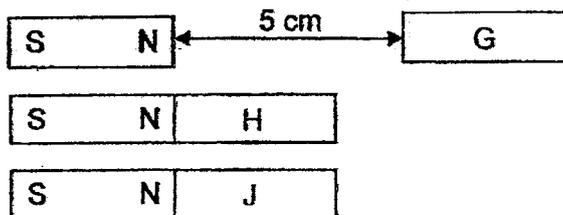
When he released the objects, the following changes in their positions were observed.

**after**



Mr Lim rotated the magnets and repeated the test. The following changes in their positions were observed when he released the objects.

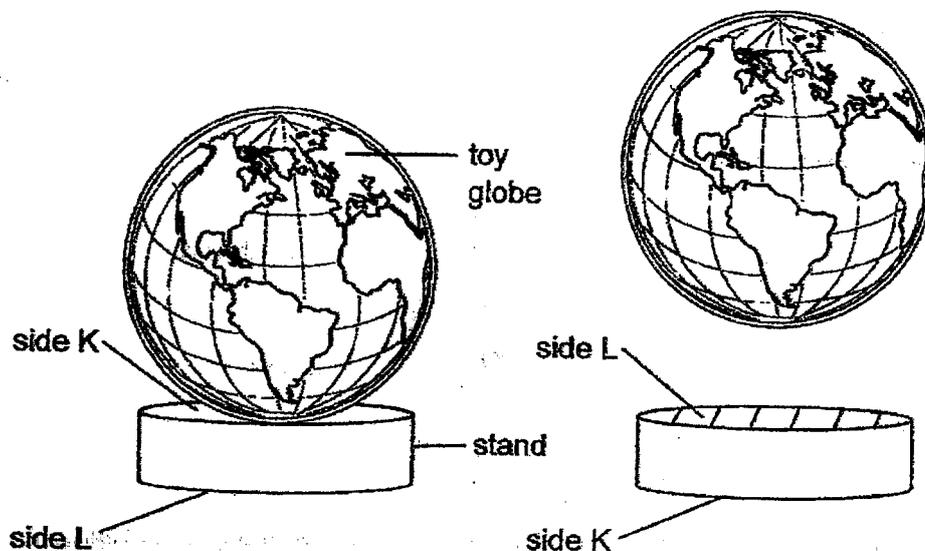
**after**



Based on the results above, what can objects, G, H and J, be?

	Non-Magnetic Object	Magnet	Magnetic Object
(1)	G	J	H
(2)	H	J	G
(3)	J	H	G
(4)	H	G	J

17. Ms Tan purchased a toy globe which was resting on a stand as shown below. She noticed that the stand was made of a single material. When she flipped the stand upside down, the toy globe floated above the stand.



Based on the observation, what could Ms Tan conclude?

- (1) Only the stand is a magnet.
- (2) Only the toy globe is made of a magnetic material.
- (3) Both the stand and toy globe are made of magnetic materials.
- (4) The stand is made of a non-magnetic material while the toy globe is a magnet.

End of Booklet A

**P3 Science Practice Paper**

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

Class: P3 ( )

Date: \_\_\_\_\_

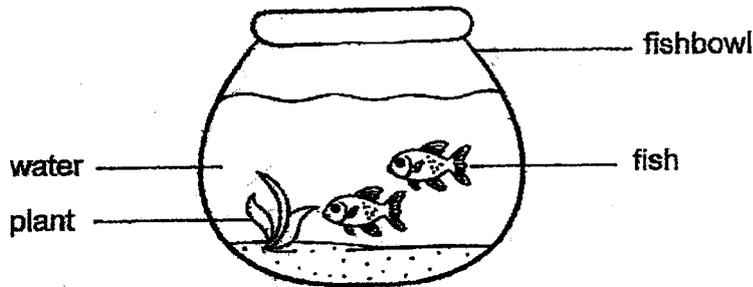
**Booklet B (26 marks)**

For questions 18 to 26, write your answers clearly in this booklet.

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

(26 marks)

18. The diagram below shows a fishbowl.

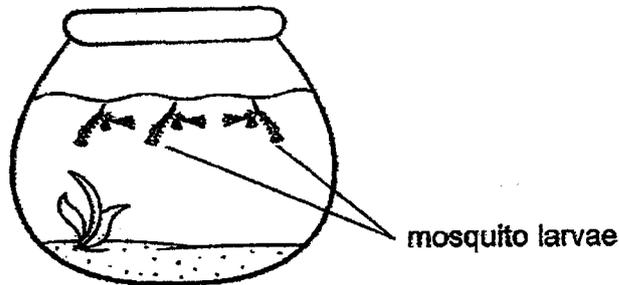


(a) Classify the 4 things above under the correct heading in the table below. [1]

Can grow	Cannot grow

(b) After a few weeks, some fish eggs were found in the fishbowl. What characteristic of living things does this show? [1]

Siti removed the fish from the fishbowl and found mosquito larvae in the water after some time.



(c) Suggest why the adult mosquito might prefer to lay eggs in the fishbowl without fish.

(d) \_\_\_\_\_ [1]

\_\_\_\_\_

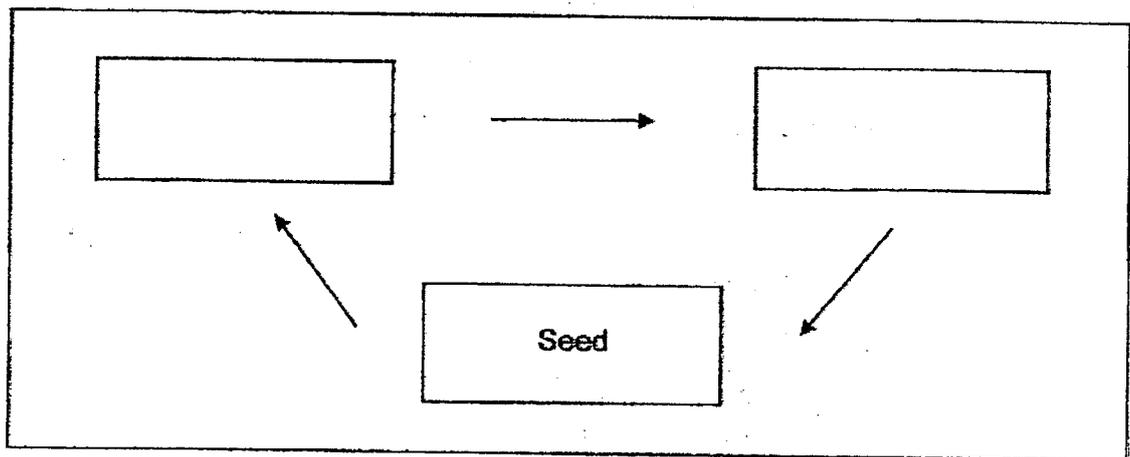
Score	3
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19. Henry observed the growth of plant J from a seed. He noted down the following observations in his Science journal below.

Day	Observation
2	The roots appeared.
8	The first pair of leaves appeared.
13	More leaves appeared.
42	The flowers appeared.
57	The fruits appeared.

- (a) Complete the life cycle of plant J in the box below.

[1]



- (b) Based on the information above, on which day did plant J become an adult plant?

[1]

Day \_\_\_\_\_

- (c) Some insects ate all the flowers of plant J. Explain how the life cycle of plant J is affected.

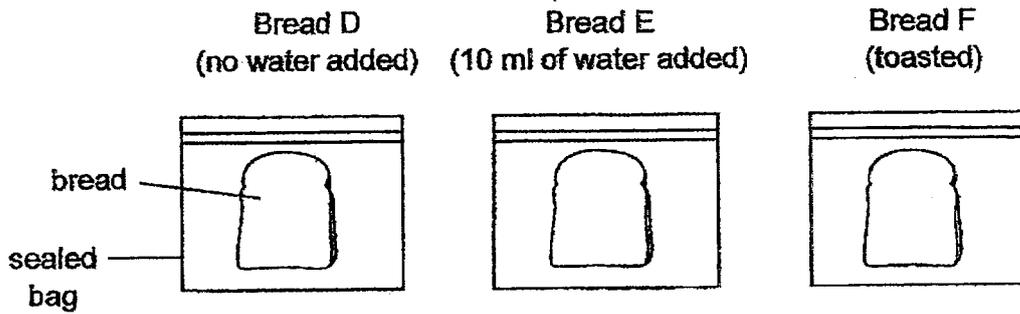
[1]

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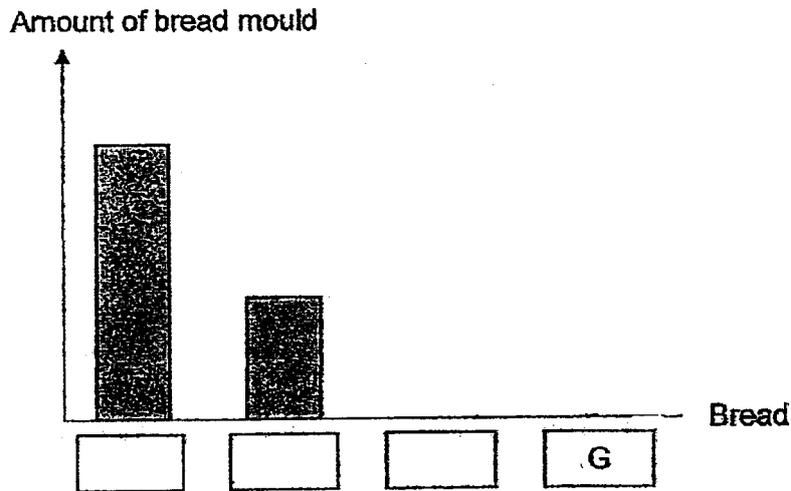


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20. Sam carried out an experiment using three identical slices of bread, D, E and F, as shown below. He placed the three sealed bags on the kitchen table at room temperature.

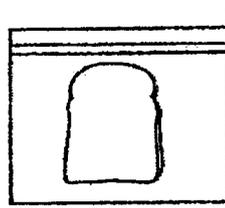


- (a) Match the above pieces of bread to the amount of bread mould found on the bread after a week by writing D, E and F, in the boxes below. [1]



Sam added an identical slice of bread, G, to the experiment as shown below.

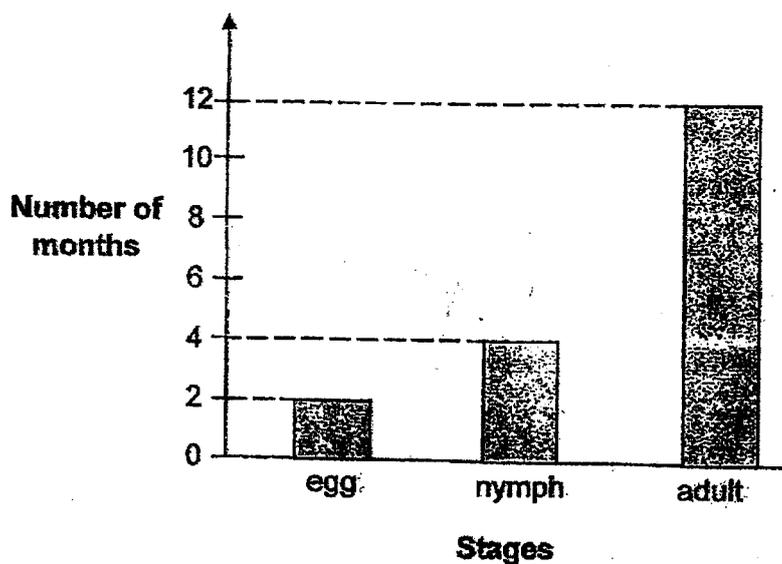
Bread G  
(5 ml of water added)



- (b) Complete the bar graph above to show the possible amount of bread mould that grew on Bread G. [1]
- (c) State all the conditions required for the bread mould to grow. [1]

Score	3
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21. Jia Le observed the life cycle of a cockroach. He recorded the number of months the cockroach spends in each stage of its life cycle in the graph below.



- (a) State the number of months a cockroach will take to enter the adult stage after the egg hatches. [1]

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- (b) Why do cockroaches need to reproduce? [1]

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- (c) Cockroaches are pests as they spread diseases. At which stage of their life cycle is it the easiest to get rid of them? Explain why. [1]

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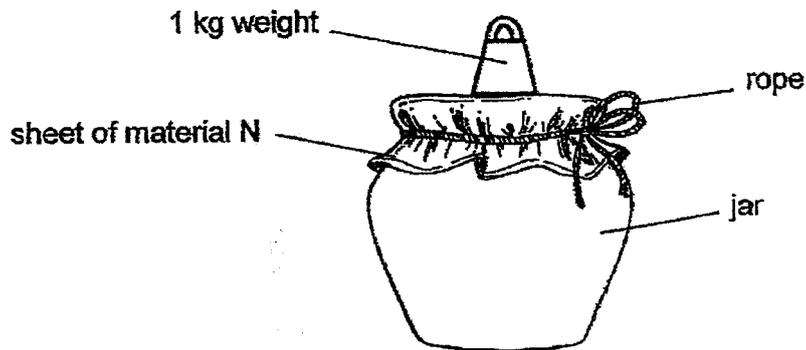


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Score	3
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22. Ahmad wanted to find out which material, N, P, Q or R, is the strongest. They have the same thickness and size.

He covered the brim of a jar using a sheet of material N and tied it with a rope. He added 1 kg weights on the sheet of material N until it started to tear.



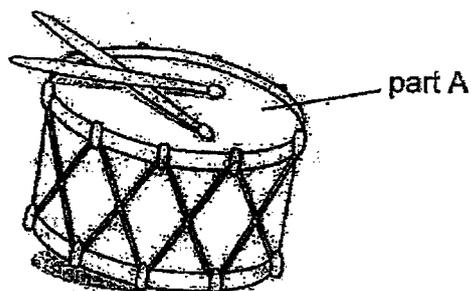
He repeated the experiment above using the materials, P, Q and R. The table below shows the greatest mass each material could hold before it tore.

Material	Greatest mass each material could hold before it tore (kg)
N	7
P	5
Q	9
R	3

- (a) Arrange the 4 materials, N, P, Q and R, in order of its strength, from the weakest to the strongest. [1]

\_\_\_\_\_ weakest \_\_\_\_\_ strongest

The diagram below shows a drum.

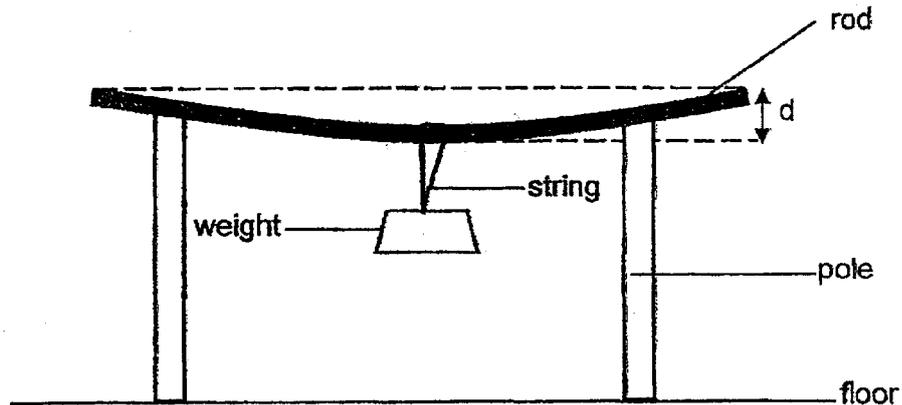


(b) Which of the materials, N, P, Q or R, is the most suitable for making part A? Explain why. [1]

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23. Kelly set up an experiment using four rods made of different materials, S, T, U and V. She attached a weight to each rod and measured the distance,  $d$ , bent by each rod as shown below.



The table below shows her results.

Material	Distance bent, $d$ (cm)
S	19
T	0
U	4
V	13

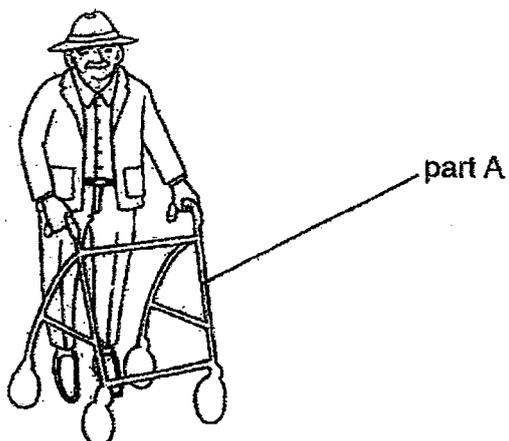
- (a) Which property of the materials was tested in the above experiment? [1]

- (b) Tick (✓) the variable(s) that must be kept the same to make the experiment a fair test. [1]

Variable	Variable(s) that must be kept the same
mass of weight	
type of material	
thickness of material	

Score	2
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The diagram below shows a walker that Kelly's grandfather uses.



(c) Explain why it is not safe for part A to be made from material S?.

[1]

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(d) Choose the most suitable material that part A should be made of. Put a tick (✓) in the correct box below.

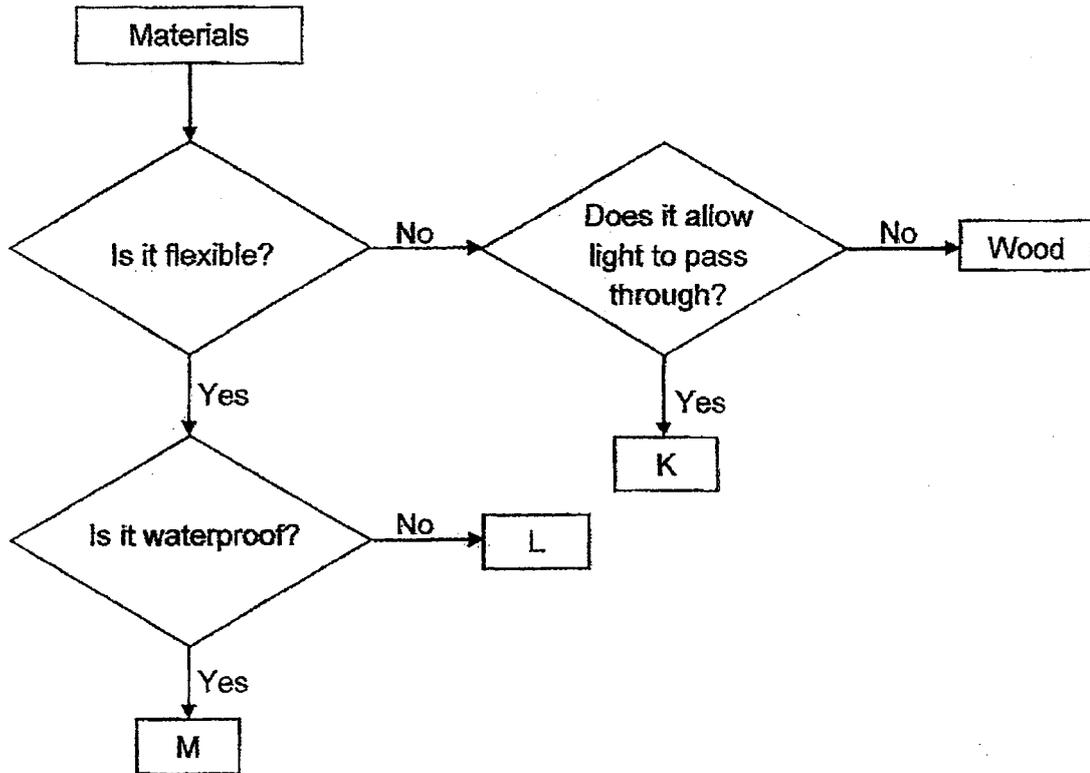
[1]

Rubber

Glass

Metal

24. Study the flowchart below.



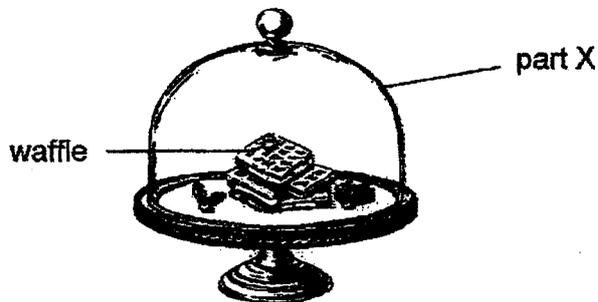
(a) Based on the flowchart above, state all the characteristics of Material L. [1]

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Mrs Tan wants to purchase a waffle stand for her bakery. Part X of the stand should allow customers to see the waffles.



(b) Which material, K, L or M, could part X be made of? Explain why. [1]

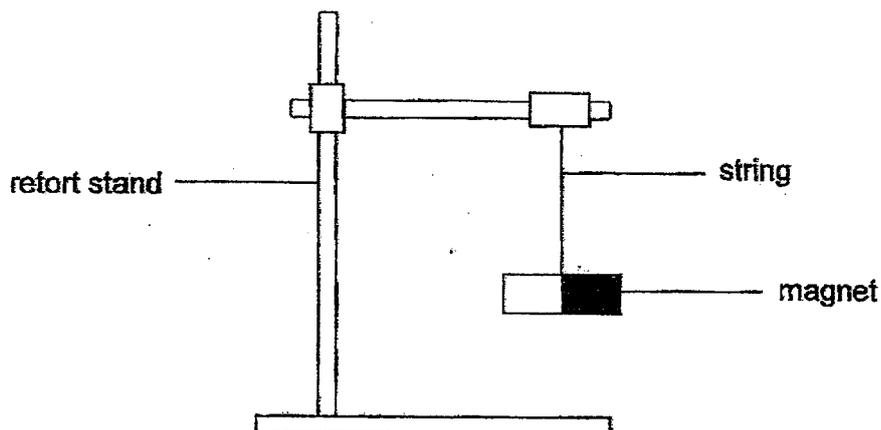
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Score	2
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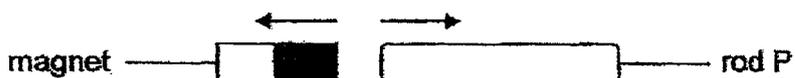
25. Amirah hung a freely suspended magnet on a retort stand. She noticed that it always comes to rest in the same direction after spinning it a few times.



- (a) Which direction did the magnet come to rest? [1]

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Amirah placed the same bar magnet close to rod P. She noticed that the two objects moved away from each other as shown by the arrows below.



- (b) Amirah said that rod P is a magnet. Do you agree with her? Explain why. [1]

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- (c) Amirah replaced rod P with a copper rod. What happened when Amirah placed the same bar magnet close to the copper rod? Explain why. [1]

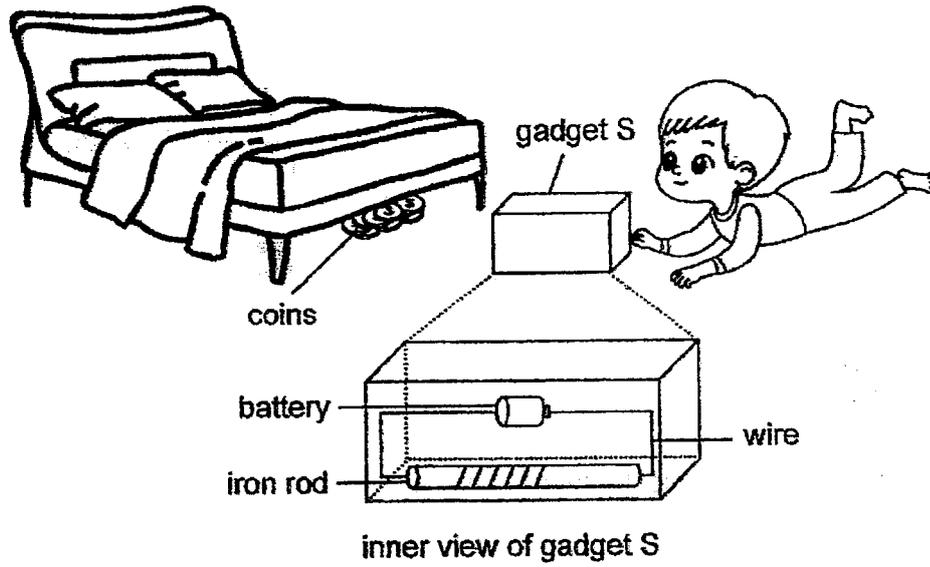
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Score	3
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26. Rohan dropped ten identical coins on the floor which rolled under his bed. The bed frame was too low so he could not see where all his coins were.



- (a) Rohan used gadget S which contains an electromagnet to retrieve the coins and observed that nine of them moved towards it. Explain why the coins moved towards the gadget. [1]

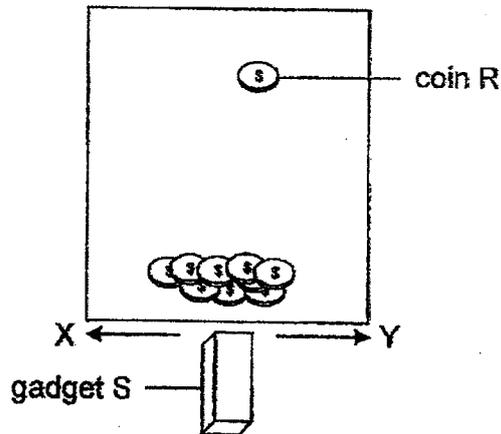
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Score	1
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The diagram below shows the position of the ten coins under Rohan's bed. Gadget S was too large to go under the bed so Rohan could only move it from X to Y. The arrows indicate the movement of the gadget.



(b) Coin R did not move towards gadget S. Give a reason why.

[1]

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(c) Suggest a change Rohan could make to the electromagnet in gadget S so that he could attract coin R while moving the gadget from point X to point Y.

[1]

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End of Booklet B

Score	2
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YEAR : 2025  
LEVEL : PRIMARY 3  
SCHOOL : TAO NAN SCHOOL  
SUBJECT : SCIENCE  
TERM : PRACTICE PAPER

(BOOKLET A)

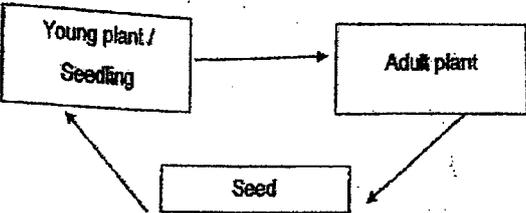
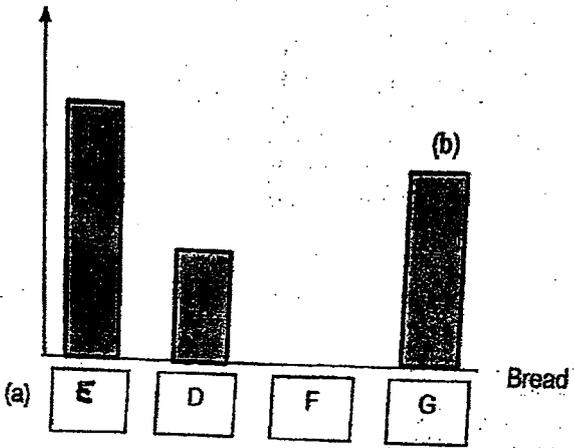
Q1	3	Q2	2	Q3	4	Q4	3	Q5	1
Q6	4	Q7	1	Q8	3	Q9	3	Q10	1
Q11	1	Q12	4	Q13	1	Q14	4	Q15	4
Q16	1	Q17	1						



Name: \_\_\_\_\_ ( )

Class: \_\_\_\_\_

Primary 3 Science Practice Paper Answers

Q18 (a)	<table border="1" style="margin-left: 20px;"> <tr> <td style="padding: 5px;">Can grow</td> <td style="padding: 5px;">Cannot grow</td> </tr> <tr> <td style="padding: 5px;">fish plant</td> <td style="padding: 5px;">water fishbowl</td> </tr> </table>	Can grow	Cannot grow	fish plant	water fishbowl
Can grow	Cannot grow				
fish plant	water fishbowl				
Q18 (b)	Living things can reproduce				
Q18 (c)	The water was stagnant.				
	<u>OR</u> There will be no fish to eat the larvae/ eggs.				
Q19 (a)	 <pre> graph TD     A[Young plant / Seedling] --&gt; B[Adult plant]     B --&gt; C[Seed]     C --&gt; A             </pre>				
Q19 (b)	Day 42				
	Life cycle of plant J cannot continue.				
Q19 (c)	<u>OR</u> Plant J cannot produce seeds.				
	<u>OR</u> Plant J cannot reproduce.				
Q20 (a) and (b)	<p style="text-align: center;">Amount of bread mould</p>  <p style="text-align: center;">Bread</p>				
Q20 (c)	presence of warmth, water/ moisture, air/ oxygen				

Q21 (a)	4 months								
Q21 (b)	To ensure that the species does not become extinct. <u>OR</u> To ensure the continuity of their kind/ continue the life cycle.								
Q21 (c)	Egg stage. They cannot move while the nymph and adult can move around freely. <u>OR</u> Nymph stage. They cannot fly like the adults so we can get rid of them easily.								
Q22 (a)	R, P, N, Q								
Q22 (b)	<b>Claim:</b> Material Q <b>Evidence:</b> It is the strongest material. / It could hold the greatest mass before it tore. <b>Reason:</b> Part A of the drum needs to be strong so that it does not break when someone plays it.								
Q23 (a)	Flexibility								
Q23 (b)	<table border="1"> <thead> <tr> <th>Variable</th> <th>Variable(s) that must be kept the same</th> </tr> </thead> <tbody> <tr> <td>mass of weight</td> <td>✓</td> </tr> <tr> <td>type of material</td> <td></td> </tr> <tr> <td>thickness of material</td> <td>✓</td> </tr> </tbody> </table>	Variable	Variable(s) that must be kept the same	mass of weight	✓	type of material		thickness of material	✓
Variable	Variable(s) that must be kept the same								
mass of weight	✓								
type of material									
thickness of material	✓								
Q23 (c)	S is the most flexible. The walker will bend when Kelly's grandfather is using it and he will fall.								
Q23 (d)	metal								
Q24 (a)	L is flexible but not waterproof.								
Q24 (b)	K. It allows light to pass through.								
Q25 (a)	North-South direction.								
Q25 (b)	Yes. Only magnets are able to <b>repel</b> one another. <u>OR</u> Like poles of rod P and the magnet faced each other so they <b>repelled</b> each other.								
Q25 (c)	The copper rod did not move because it is a non-magnetic material. <u>OR</u> The copper rod was not attracted or repelled by the magnet because it is a non-magnetic material.								
Q26 (a)	The coins were made of magnetic material so they were attracted <b>by the electromagnet</b> .								
Q26 (b)	Coin R was too far away so the <b>magnetism</b> of the electromagnet was <b>not strong enough</b> .								
Q26 (c)	Increase the number of coils <b>of wire</b> . <u>OR</u> Increase the number of batteries.								