RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY THREE
2023

SCIENCE
(BOOKLET A)

Name: _____ ( ) Date : ~~27~~ 26 October 2023

Class: P3 _____ Total Time: 1h 30min

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and index number in the spaces provided above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For Question 1- 24, use 2B pencil to shade your answers on the Optical Answer Sheet (OAS).

Booklet A	48
Booklet B	32
Your score out of 80	
Parent's signature	

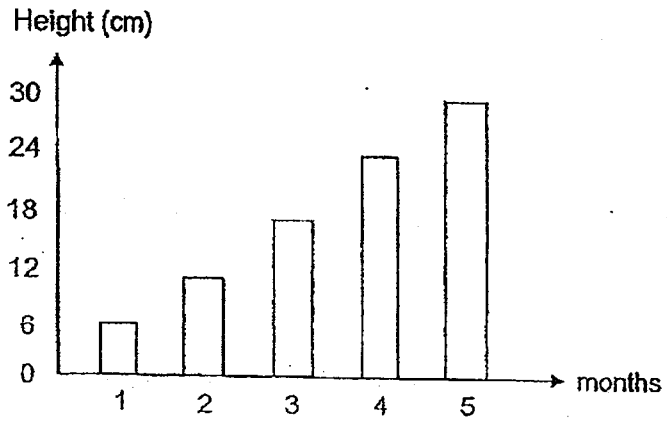
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1. Which of the following does **not** show the characteristics of a living thing?

(1) A baby drinking milk.
(2) A ball rolling on the floor.
(3) A plant growing towards the sun.
(4) A dog wagging its tail when it sees its owner.

2. The graph shows the height of a plant over five months.

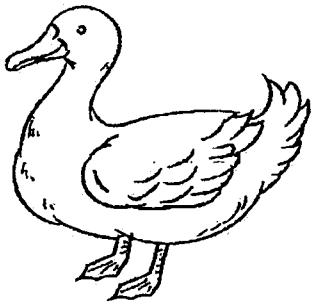
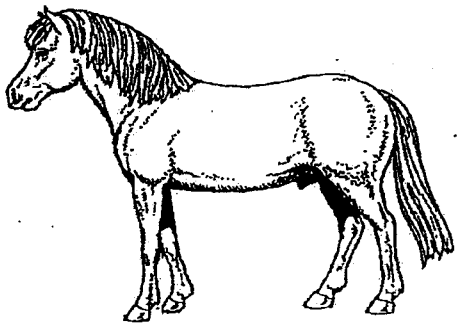
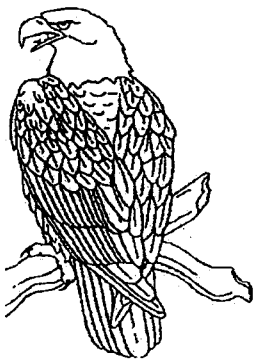


Based on the information, what can be concluded about the plant?

(1) The plant reproduced as it grew.
(2) The mass of the plant decreased as it grew.
(3) The height of the plant increased as it grew.
(4) The plant needed more air, food and water to survive as it grew.

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3. The diagrams show two groups of animals.

Group A	Group B
	
	

Which of the following shows the correct classification of the animals?

	Group A	Group B
(1)	Birds	Reptiles
(2)	Insects	Mammals
(3)	Reptiles	Insects
(4)	Mammals	Birds

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4. Study the three animals shown.



Which of the following shows the correct animal group and characteristics of the three animals?

	Animal Group	Characteristic
(1)	Birds	They can fly.
(2)	Birds	They have a pair of wings
(3)	Insects	They can fly.
(4)	Insects	They have 6 legs.

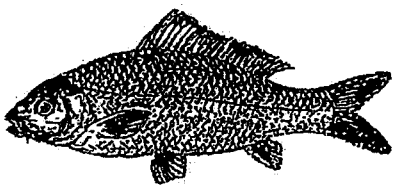
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5. The following shows the characteristics of animal X.

- **It has fins.**
- **It lays eggs.**
- **It has a body covering of scales.**

Based on the information above, which of the following best represents animal X?

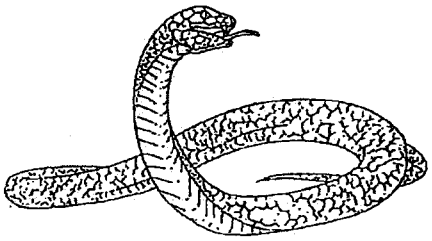
(1)



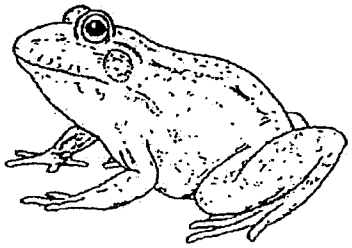
(2)



(3)



(4)



6. The table shows some animals classified into two groups, A and B.

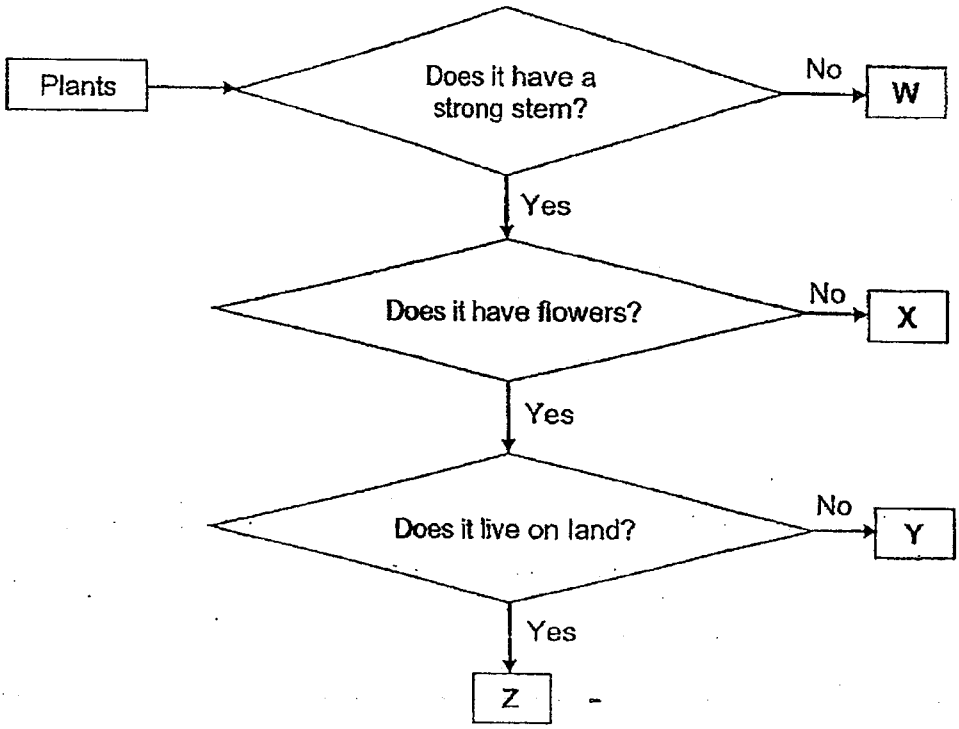
Group A	Group B
parrot	turtle
chicken	crocodile
peacock	salamander

Which of the animals is classified wrongly?

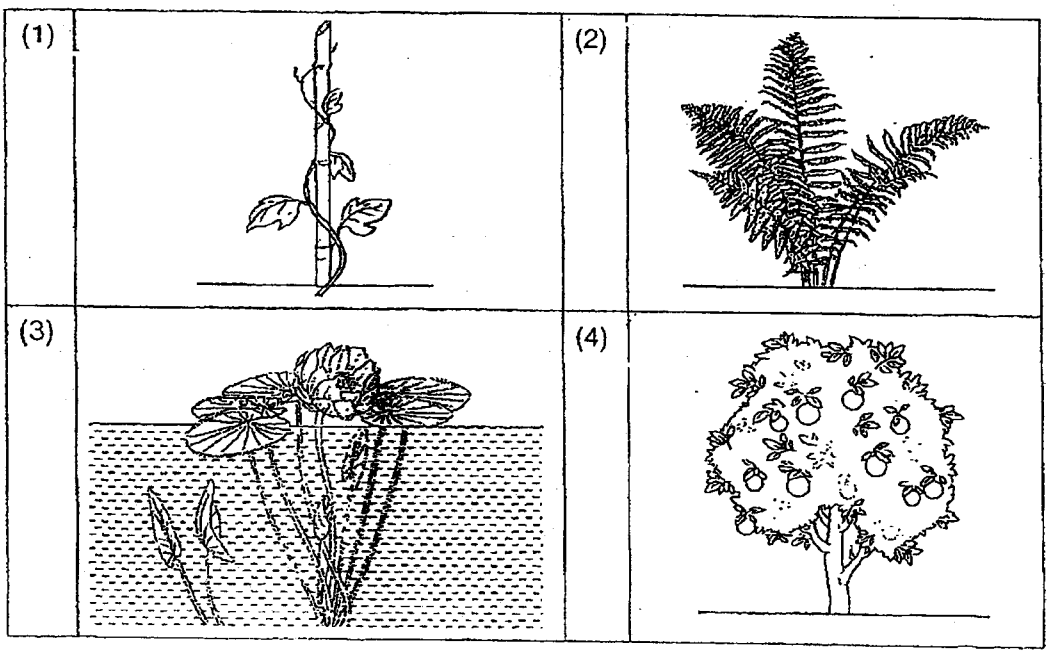
(1) Turtle
(2) Chicken
(3) Peacock
(4) Salamander

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7. Study the flowchart on plants W, X, Y and Z.



Which of the following represents plant Y correctly?



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8. The table below shows two groups of living things, S and T.

S	T
sword fern	orchid
staghorn fern	water lily
birds' nest fern	morning glory

Which of the following would fit into group S and T correctly?

	S	T
(1)	moss	rose plant
(2)	rose plant	mushroom
(3)	mushroom	bracket fungi
(4)	bracket fungi	moss

9. The following characteristics describe a living thing.

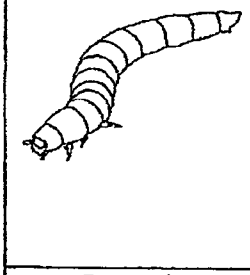
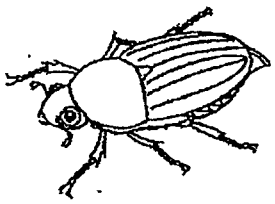
- It does not reproduce by spores.
- It cannot make its own food.

Which of the following group does the living thing belongs to?

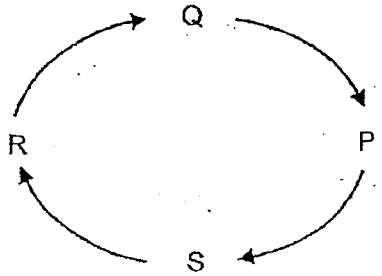
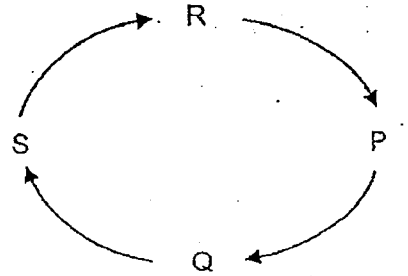
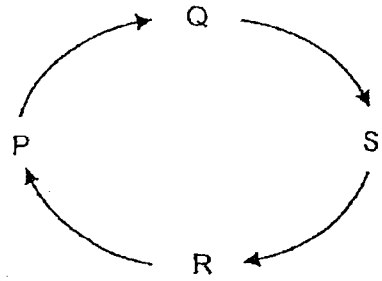
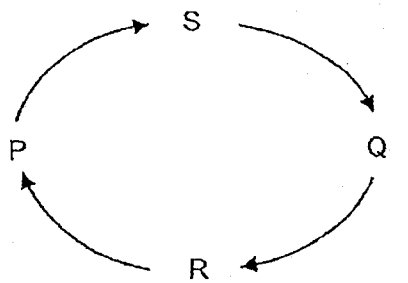
(1) Fungi
(2) Bacteria
(3) Flowering plant
(4) Non-flowering plant

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10. The diagram shows different stages in the life cycle of an animal.

			
Stage P	**Stage Q**	**Stage R**	**Stage S**

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

(1)	(2)
	
(3)	**(4)**
	

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11. The characteristics of animals X and Y are shown in the table.
A tick (✓) represents the presence of the characteristic.

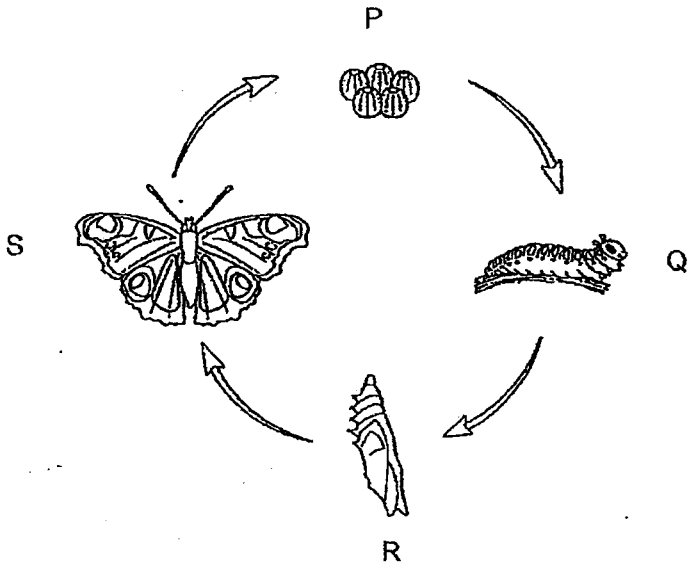
Characteristic	Animal X	Animal Y
Live on land throughout its life cycle.	✓	✓
Young resembles the adult.		✓
Has a four-stage life cycle.	✓	

Based on the information, which of the following identifies animal X and Y correctly?

	X	Y
(1)	Frog	Cockroach
(2)	Mealworm beetle	Grasshopper
(3)	Grasshopper	Frog
(4)	Mosquito	Mealworm beetle

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12. The diagram shows the life cycle of a butterfly.



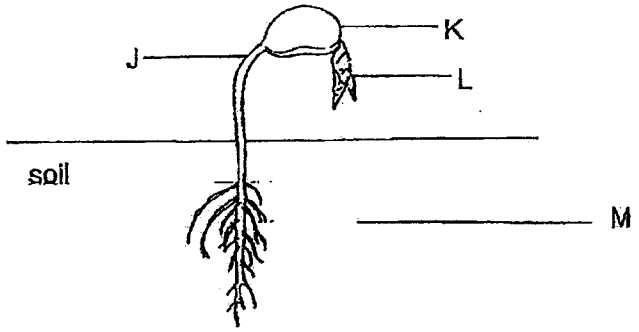
Which of the following statement(s) is/are correct about the butterfly?

A It stops eating at stage R.
B Its young resembles the adult.
C Its wings are fully developed at stage R.

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

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13. The diagram shows a growing seed with some of its parts labelled.



Which of the following parts emerges first during seed germination?

(1) J
(2) K
(3) L
(4) M

14. The table shows the characteristics of four organisms. A tick (✓) indicates the presence of the characteristic.

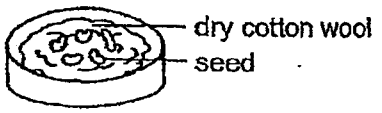
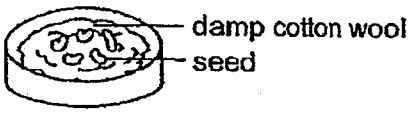
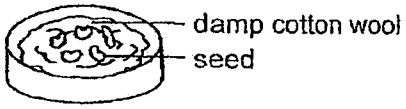
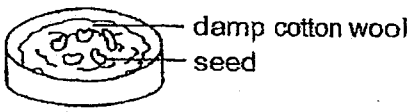
Characteristics	W	X	Y	Z
Grows on land.	✓		✓	✓
Make its own food.		✓	✓	
Reproduce by spores.	✓		✓	

Which of the following organisms is a flowering plant?

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

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15. Sandy wanted to find out if sunlight is needed for seeds to grow. She placed the following set-ups in different locations.

	
Set-up P (in the freezer)	**Set-up Q** (in a dark room)
	
Set-up R (near a window)	**Set-up S** (in the freezer)

Which two set-ups should Sandy use for her experiment?

(1) P and R

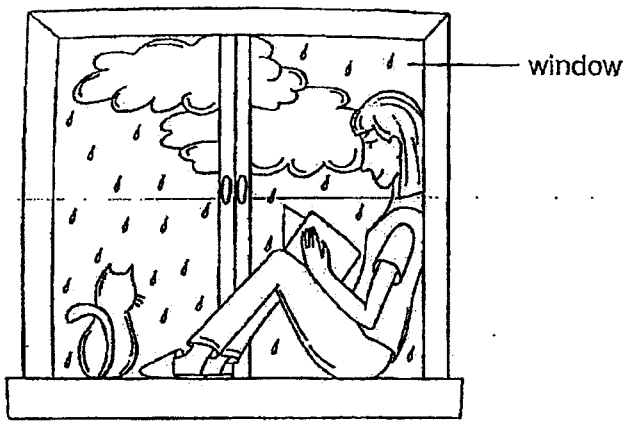
(2) P and S

(3) Q and R

(4) Q and S

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16. Ella was able to see the rain clearly from her room while remaining dry.



Based on your observation, what are the properties of the material which is used to make the window?

(1) strong and flexible
(2) flexible and allows most light to pass through
(3) strong and allows some light to pass through
(4) waterproof and allows most light to pass through

17. The table below shows how some items are classified based on the material they are made of.

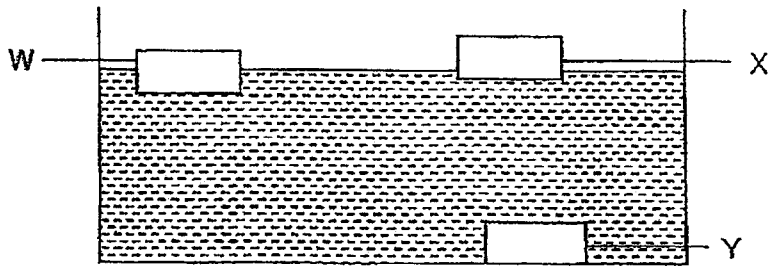
Group A	Group B	Group C	Group D
sock	eraser	coin	book
school uniform	hair tie	magnet	newspaper

In which group will you place a metal can?

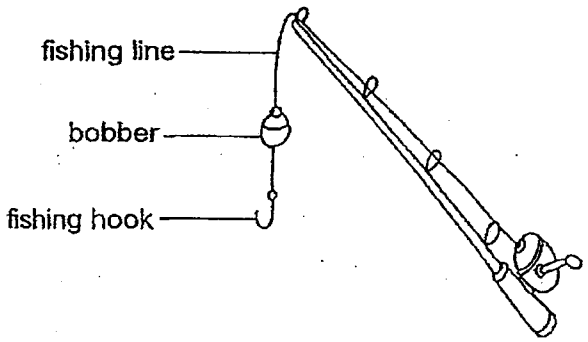
(1) Group A
(2) Group B
(3) Group C
(4) Group D

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18. Three materials, W, X and Y, of similar size and shape were placed in a container of water. The materials came to rest in the positions as shown in the diagram.



A bobber is attached onto fishing lines as shown in the diagram, to prevent the fishing hook from sinking to the bottom of the lake.



Which of the material(s) will be suitable to make a bobber for fishing lines?

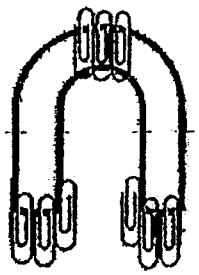
(1) **W** only
(2) **Y** only
(3) **W** and X only
(4) **X** and Y only

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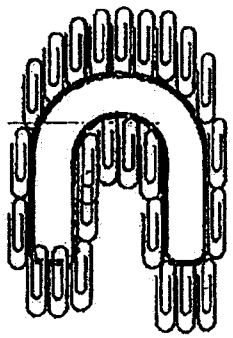
19. A U-shaped magnet was placed above a tray of paper clips.

Which one of the following shows the correct interaction between the paper clips and the magnet?

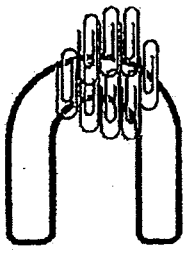
(1)



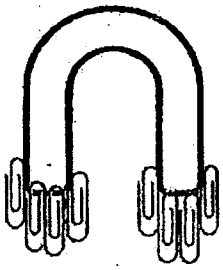
(2)



(3)

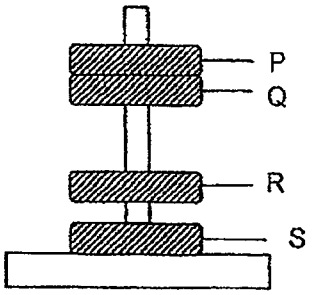


(4)



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20. Four rings; P, Q, R and S, were placed in a holder as shown in the diagram.



Based on the information above, which of the following statements is definitely correct?

(1) Q is attracted to P.
(2) P is made of metal.
(3) Q, R and S are magnets.
(4) S is an non-magnetic object.

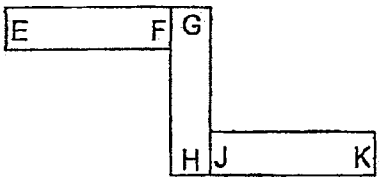
21. Which of the following methods would demagnetise a temporary magnet?

A Heating it over a fire.
B Placing it in a steel box.
C Dropping it many times.
D Stroking it in the same direction more times.

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

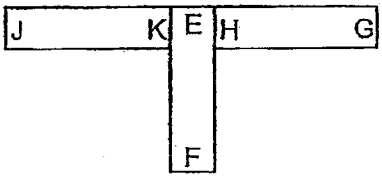
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22. Study the arrangement of three magnets as shown.

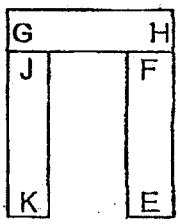


Which one of the following arrangements is possible?

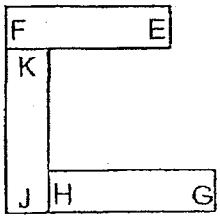
(1)



(2)



(3)



(4)

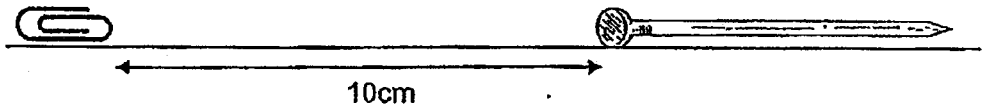


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23. Gina made four temporary magnets by stroking four identical nails W, X, Y and Z, in the same direction using the same magnet several times.

She then measured the furthest pulling distance which is the distance from which the magnetised nail started to attract the paper clip.

She placed each nail 10cm away from a paper clip and moving the nail towards the paper clip till the nail started to attract the paper clip.



She recorded the distance at which the magnetised nail started to attract the paper clip.

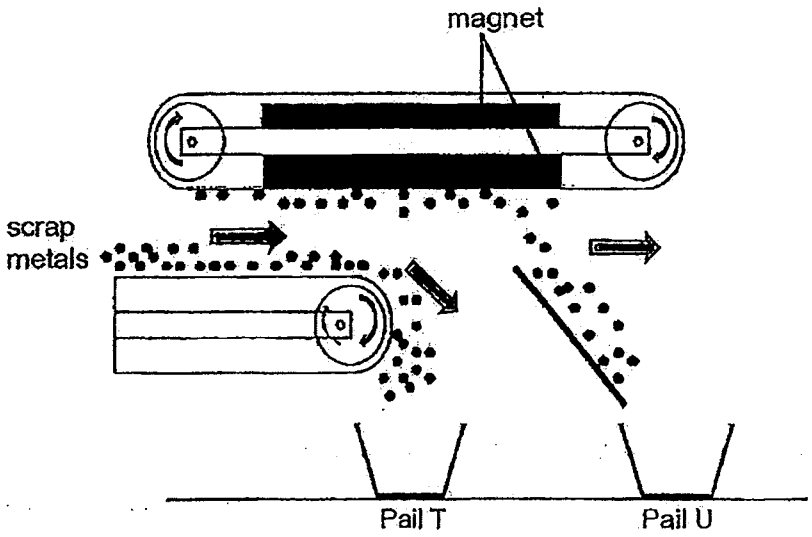
Nail	Furthest pulling distance (cm)
W	7
X	3
Y	5
Z	2

Which of the nails did Gina stroke for the least number of times?

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

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24. The diagram below shows a moving conveyor belt magnetic separator which uses magnet to separate scrap metals.



Which of the following shows the materials collected in pails T and U?

	Pail T	Pail U
(1)	iron and steel	aluminium and gold
(2)	nickel and gold	iron and copper
(3)	gold and copper	cobalt and steel
(4)	aluminium and copper	steel and gold

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RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY THREE
2023

SCIENCE
(BOOKLET B)

Name: _____ ( )

Date : ~~27~~ 26 October 2023

Class: P3 _____

Total Time : 1h 30min

INSTRUCTIONS TO CANDIDATES

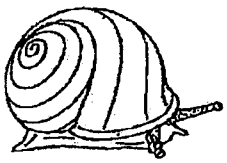
1. Write your name, class and index number in the spaces provided above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For questions 25 – 37, write your answers clearly in the spaces provided.
6. The number of marks is shown in brackets[ ] at the end of each question or part question.

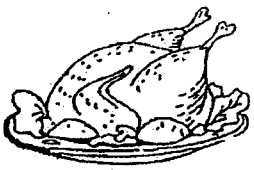
Score	/ 32

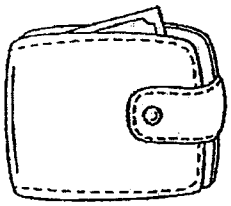
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25. Study the objects shown below.

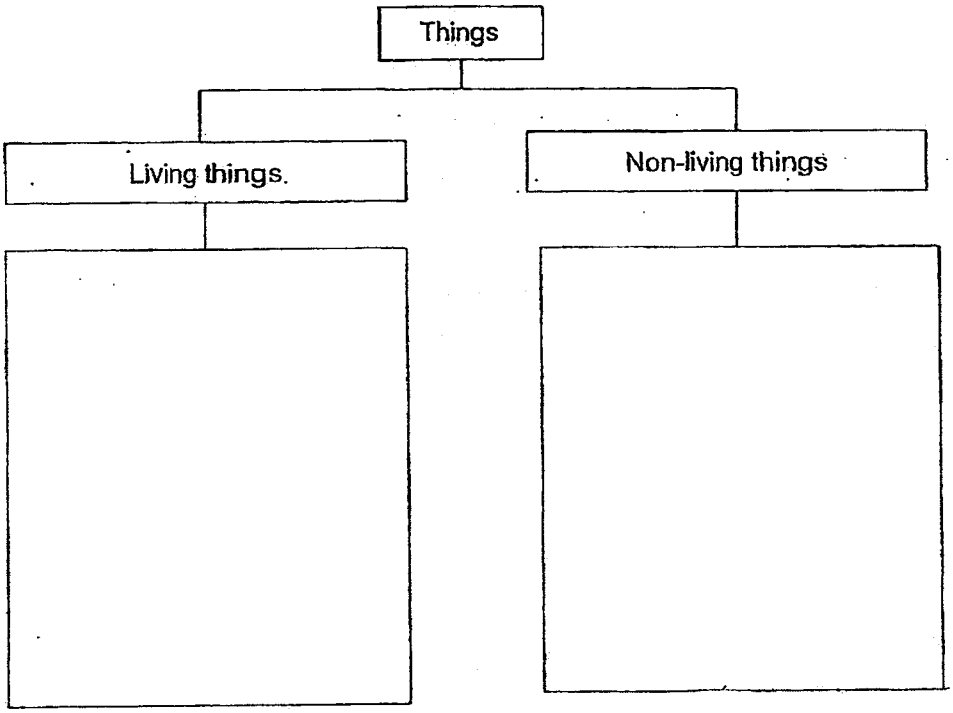

coconut tree


snail


roasted chicken


wallet

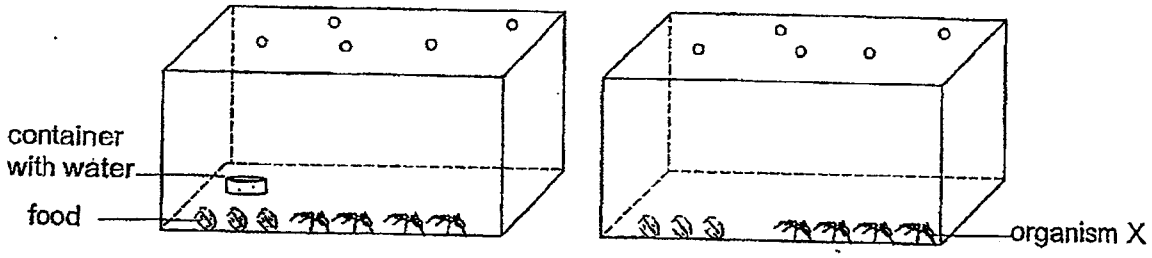
Classify the objects shown into the classification chart below. [2]



Score	/ 2

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26. Jason prepared two set-ups, A and B, as shown in the diagrams.



Set-up A **Set-up B**

He observed the number of organisms X over twenty days and recorded it in the table below.

	Number of organisms X	
Day	Set-up A	Set-up B
1	4	4
5	4	0
10	4	0
15	4	0
20	4	0

(a) Based on the information above, name a characteristic of living things. [1]

_____

_____

(b) State another characteristic of living things.

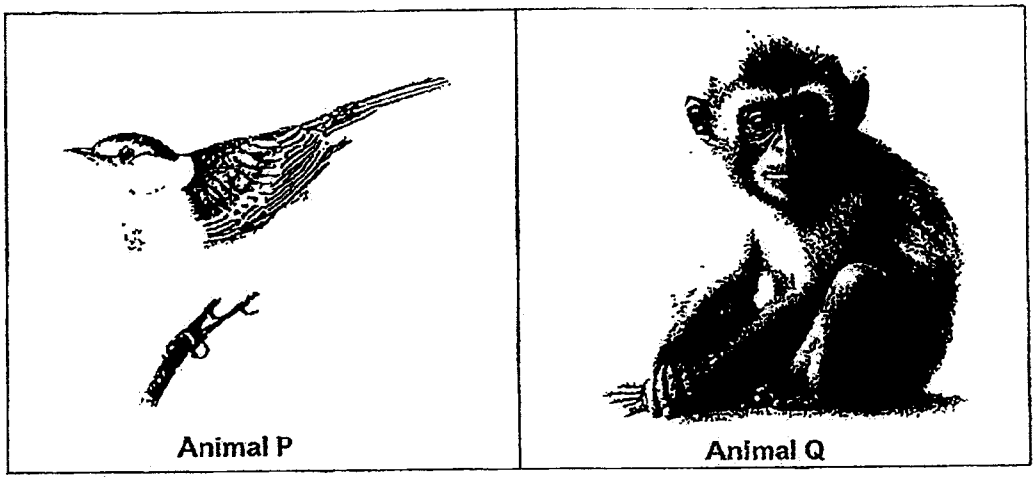
[1]

_____

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27. Study animals P and Q shown in the diagrams.

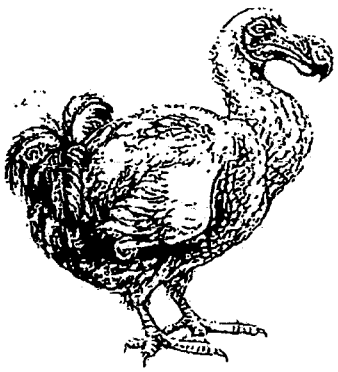


Animal P

Animal Q

(a) A student stated that the body covering of animal P and Q are the same. Do you agree? Explain your answer. [1]

The picture below shows animal R.

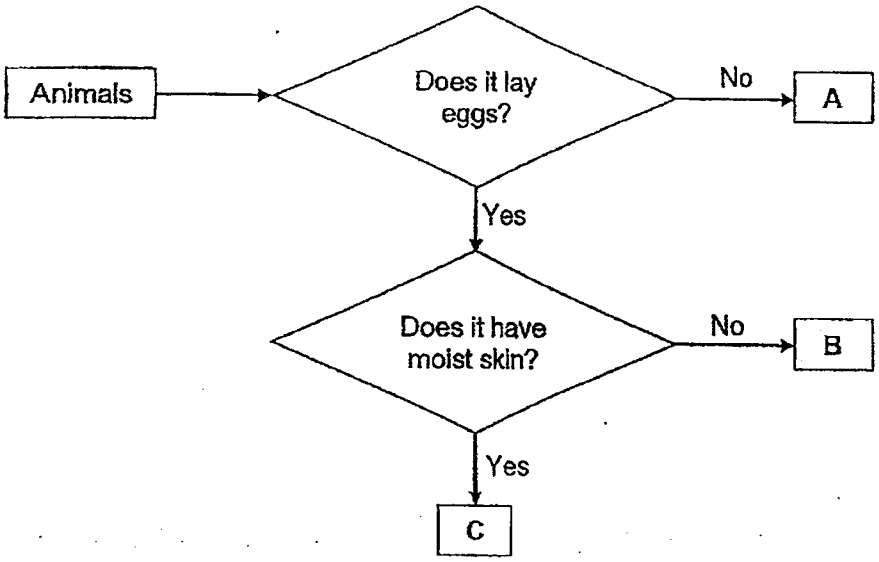


(b) Which animal, P or Q, belongs to the same animal group as animal R? Give a reason for your answer. [1]

Score	/2

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28. Study the flowchart.



Based on the flowchart, answer the following questions.

(a) State one difference between animals A and C. [1]

_____

_____

(b) State all the characteristics of animal B. [2]

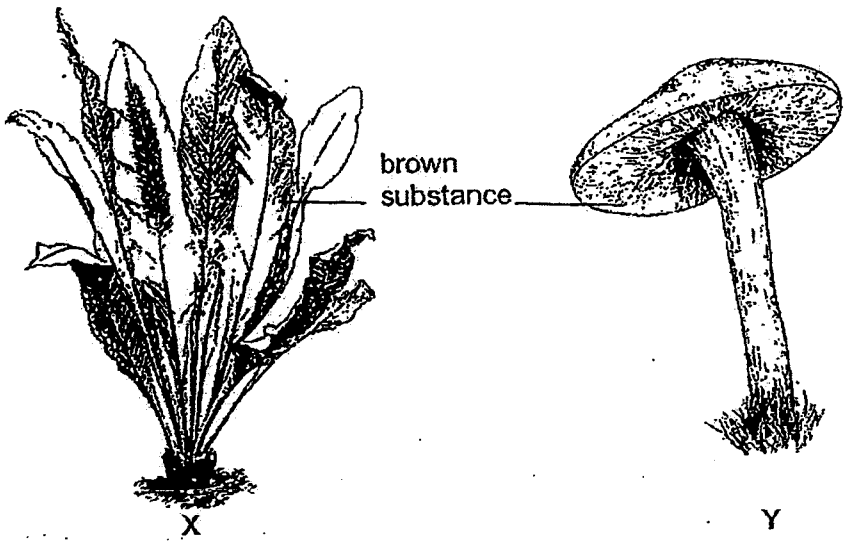
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29. Study the two organisms, X and Y, below.



Based on your observations, answer the following questions.

(a) State one similarity between organisms X and Y. [1]

_____

(b) State one difference between organisms X and Y. [1]

_____

_____

Score	/2

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30. Desmond sprinkled different amount of water over five similar slices of bread, A, B, C, D and E. He placed them in a dark cupboard and recorded the number of days when the mould first started to appear on each slice of bread.

Bread	Amount of water sprinkled on the bread (ml)	Number of days for the mould to first appear on the bread
A	7	2
B	5	5
C	4	(a) _____
D	2	8
E	1	9

(a) Fill in the missing blank in the table above. [1]

(b) What is the relationship between the amount of water sprinkled on the bread and the number of days for the mould to first appear on the bread? [1]

_____

_____

(c) Based on your answer in (b), suggest a way to slow down the appearance of mould on the slice of bread E. [1]

_____

_____

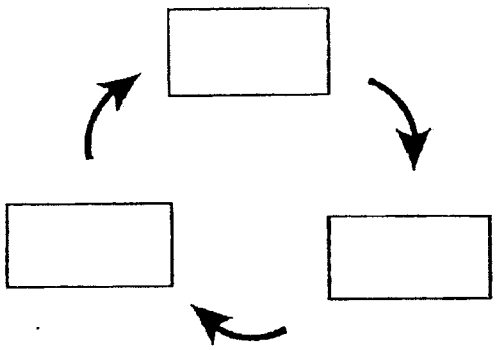
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31. Complete the life cycle of a chicken in the diagram with the helping words provided.

(a)

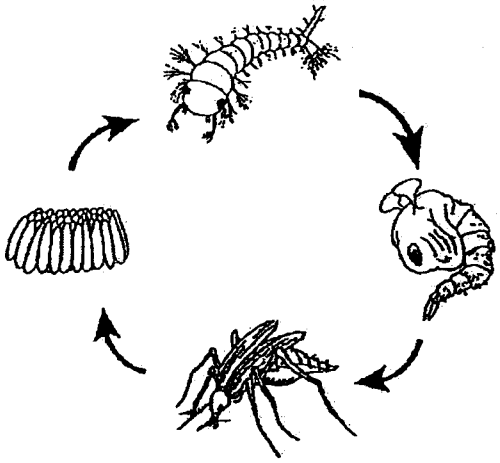
egg	adult	chick



[1]

Life cycle of a chicken

The figure below shows the life cycle of animal K.



Life cycle of animal K

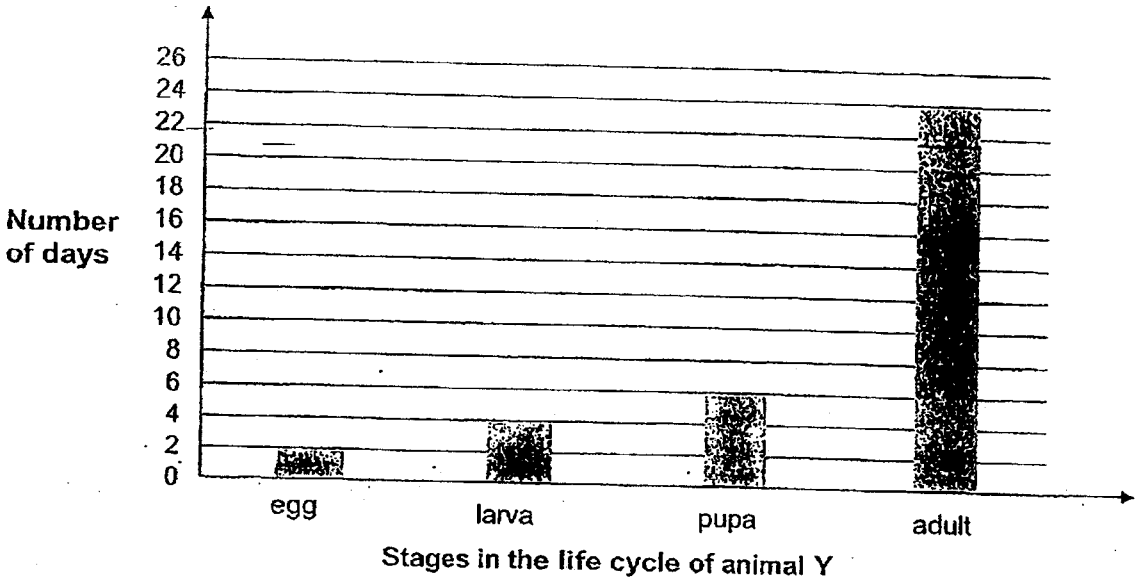
(b) State one similarity between the life cycle of the chicken and animal K. [1]

_____

Score	/ 2

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32. Duvan observed the life cycle of animal Y. He recorded the number of days the animal spends in each stage of its life cycle in the graph below.



(a) Which is the longest stage in the life cycle of animal Y? [1]

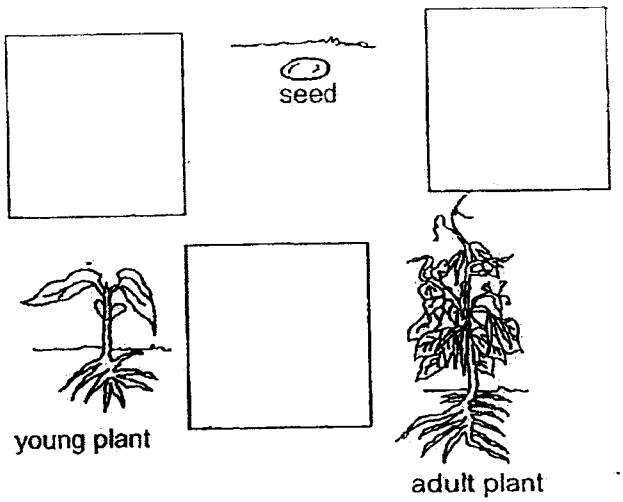
(b) Animal Y laid an egg. On the ninth day, which stage will animal Y be in? [1]

(c) How many days will it take for animal Y to develop into an adult after it has hatched? [1]

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33. Study the diagram.



(a) Complete the life cycle of the flowering plant by drawing <u>arrows</u> (→) in the boxes above. [1]

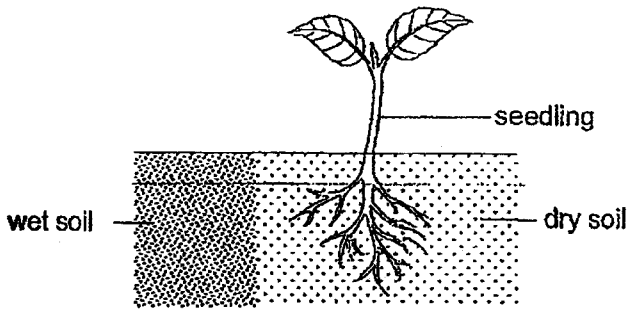
(b) Name the stage of the life cycle when the plant produces flowers. [1]

_____

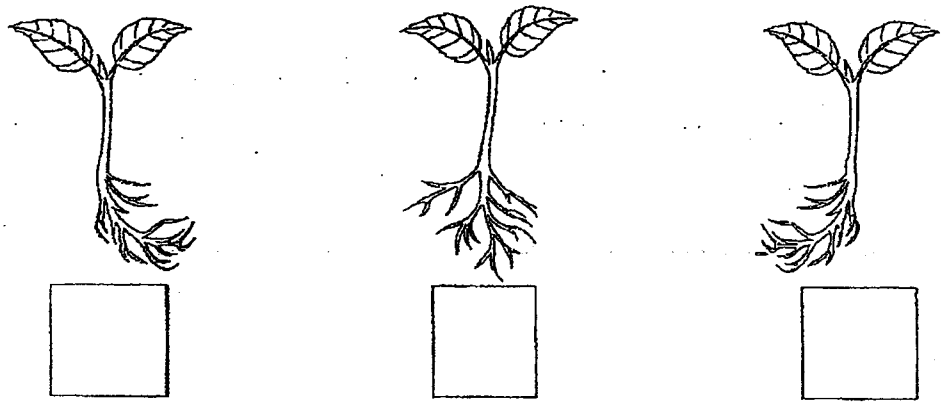
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34. The diagram shows a growing seedling in the ground. Ahmad only watered one part of the soil as shown.



(a) Put a tick (✓) in the box which shows how the root will look after a week. [1]



(b) Give a reason for your answer in (a). [1]

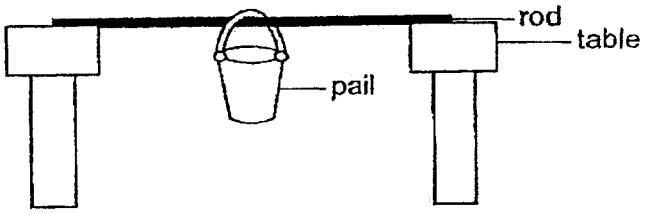
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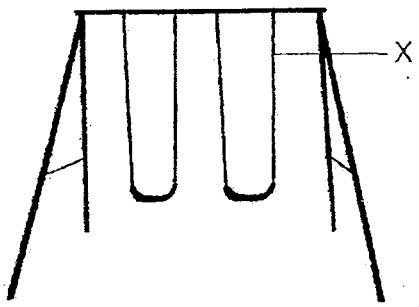
35. Janice tested the strength of four similar rods, P, Q, R and S, made of different materials as shown in the diagram. The rods were of the same length and thickness.



She added marbles into the pail until the rod started to break. She recorded her observation in the table.

Rod	Mass of marbles before the rod starts to break (kg)
P	15
Q	23
R	50
S	30

Janice wanted to build part X of the swing as shown in the diagram for a children's playground.



Which rod should Janice choose to build part X of the swing? Explain your answer. [2]

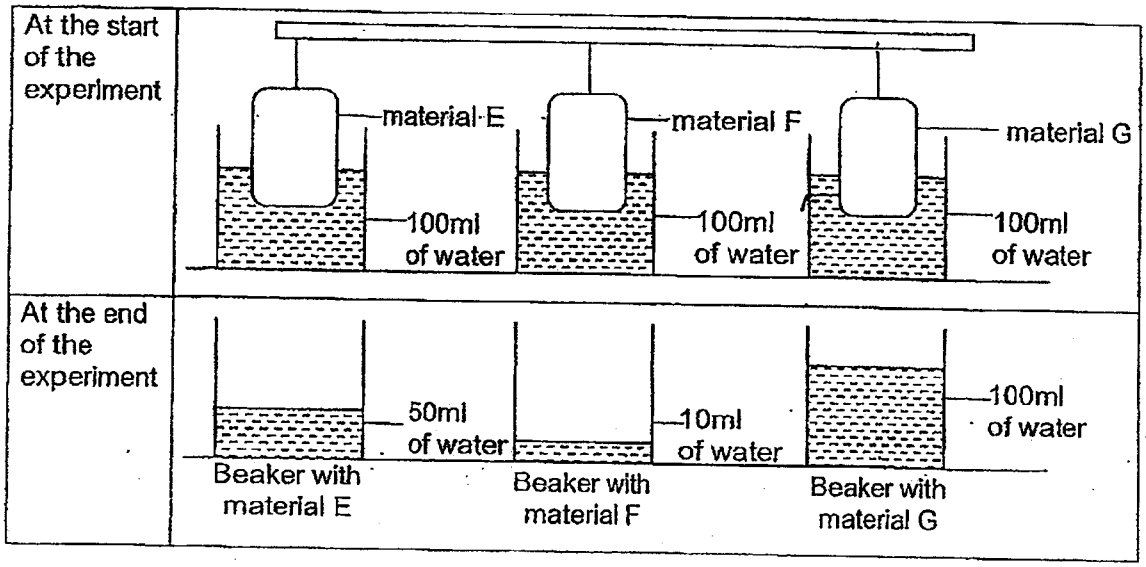
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36. Three similar sized strips of material, E, F and G, were placed in beakers of water as shown in the diagram. Each beaker contained the same amount of water at the start of the experiment. After ten minutes, the strips of material were removed and the volume of the water remaining in the beakers were measured as shown in the diagram.



(a) Based on the observation, arrange the strips from the most absorbent. [1]

Most absorbent

Least absorbent

Rumi wanted to make a pair of gloves she could wear to protect her hands when using liquid soap to wash the dishes.

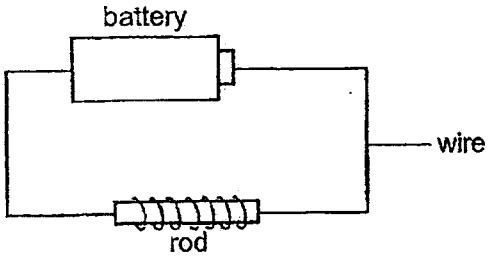


(b) Based on the experiment, which material, E, F or G, should Rumi use to make the pair of gloves? Explain your answer. [2]

Score 3

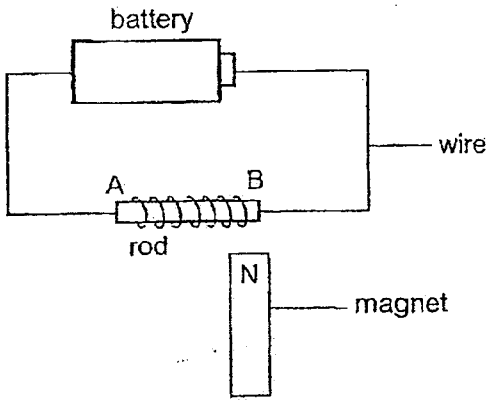
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37. Jason tried to turn two rods, J and K, into a temporary magnet by using the method shown.



(a) Name the method Jason used to make the temporary magnet. [1]

Jason brought the north-pole of a magnet to parts A and B of each rod, as shown in the diagram. He observed the interaction between the rod and the magnet and recorded it in a table.



Continue on page 32

Score 1

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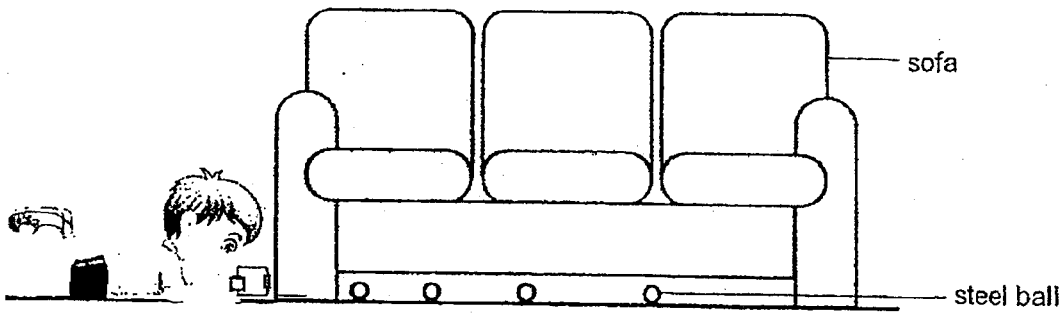
Continued from page 31

He recorded his observation as shown in the table. A tick (✓) indicates his observation.

Observation		Interaction between magnet and rod		
		Attraction	Repulsion	No interaction
Rod J	Part A	✓		
	Part B		✓	
Rod K	Part A			✓
	Part B			✓

(b) Based on Jason's observation, which rod became a temporary magnet? Explain your answer. [2]

Jason used a magnetised rod to attract the steel balls that rolled off the table and went under a sofa. The magnetised rod could only attract the steel balls closer to Jason but not those further away.



(c) Using the same apparatus in (a), suggest a change that Jason could make such that the magnetised rod could attract the steel balls which were further away from him. [1]

End of paper

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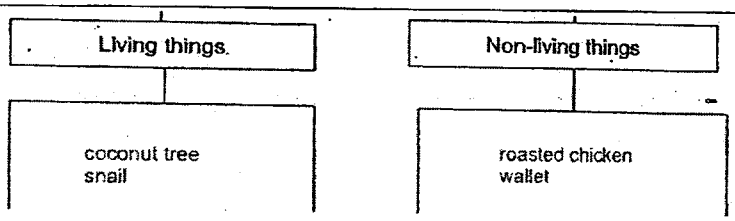
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
LEVEL : PRIMARY 3
SUBJECT : SCIENCE
TERM : 2023 SA2

CONTACT :

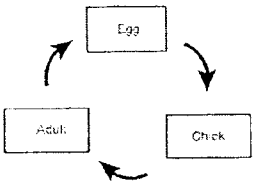
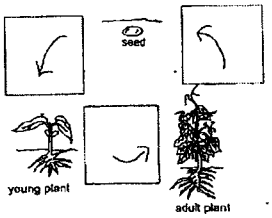
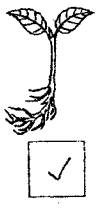
BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	4	4	1	4	3	1	2	4
Q 11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	1	4	2	3	4	3	3	4	3
Q 21	Q22	Q23	Q24						
1	1	4	3						

BOOKLET B

Q25)	
Q26)	(a) Living things need water to survive (b) Living things need air to survive
Q27)	(a) No. Animal P had feathers but Animal Q has hair. So their body cover are not the same. (b) p. Bothe P and Q have feathers
Q28)	(a) C lay eggs but A does not (b) B lay eggs but does not have moist skin
Q29)	(a) Both X and Y reproduce by spores (b) X has leaves but Y does not
Q30)	(a) 7 (b) As the amount of water sprinkled on the bread increases, the number of days for the mould to first appear in the bread decrease.

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	(c) You can reduce the amount of water on bread E.
Q31)	 (a) (b) Both the chicken and animal K have an egg stage
Q32)	(a) Adult stage (b) pupa (c) 10
Q33)	 (a) (b) Adult stage
Q34)	 (a) (b) The roots need to absorb water for the plant to survive so it will grow towards the water.
Q35)	R as it is the strongest rod and it was able to carry the most amount of marbles before breaking and Part X needs to be strong.
Q36)	(a) F, E, G (b) G. It did not absorb any water and help to keep her hands dry.
Q37)	(a) Electrical method (b) J. Part B of rod J moved away from the magnet. The like poles of the magnet were facing each other. Hence they repel. (c) Jason can increase the number of coils around the rod.

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