RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY THREE
2024

SCIENCE
(BOOKLET A)

Name:_____ Date : 24 October 2024

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	

1. The diagram shows a man shivering when he was feeling cold.

Based on the information, which of the following best represents the characteristic of living things?

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

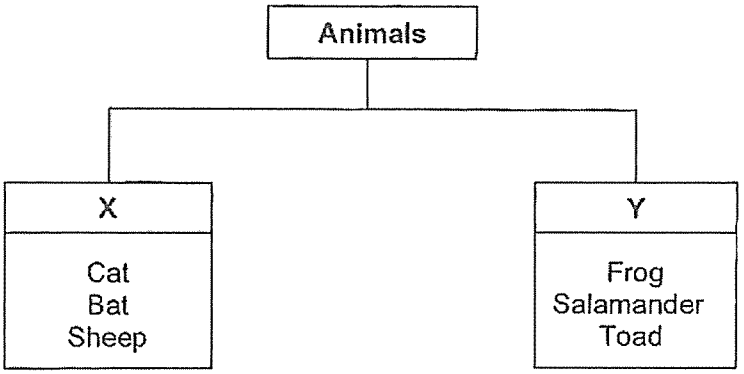
2. The table shows the height of a green bean plant over eight days.

Number of days	Height of green bean plant (cm)
2	2
4	2.5
6	3.6
8	5.5

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

(1) It grew taller.
(2) It reproduced.
(3) It grew towards sunlight.
(4) It bears flowers when its height increased.

3. The table shows how some animals are grouped.



What is the common characteristic of the animals in group Y?

(1) They have body covering of scales.
(2) They have body covering of hairs.
(3) They give birth to their young alive.
(4) They can live both in water and on land.

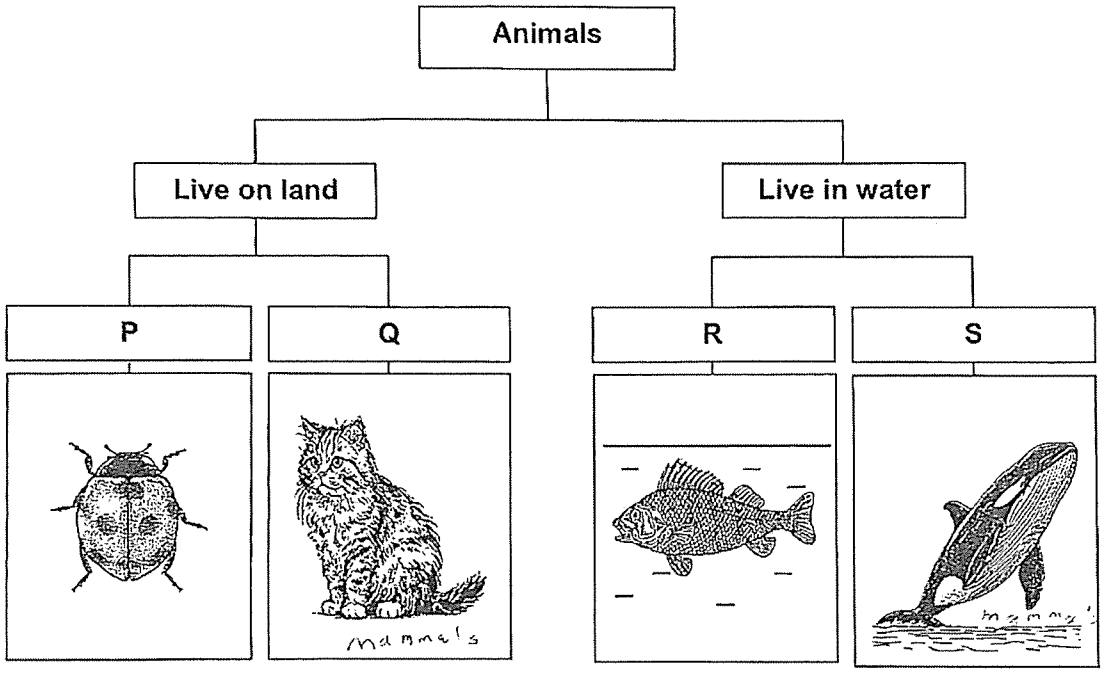
4 Three pupils made a statement each as shown.

Abby All birds have two legs.
Bala All reptiles have four legs.
Cathy All mammals have fur or hair.

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

(1) Abby only
(2) Abby and Cathy only
(3) Bala and Cathy only
(4) Abby, Bala and Cathy

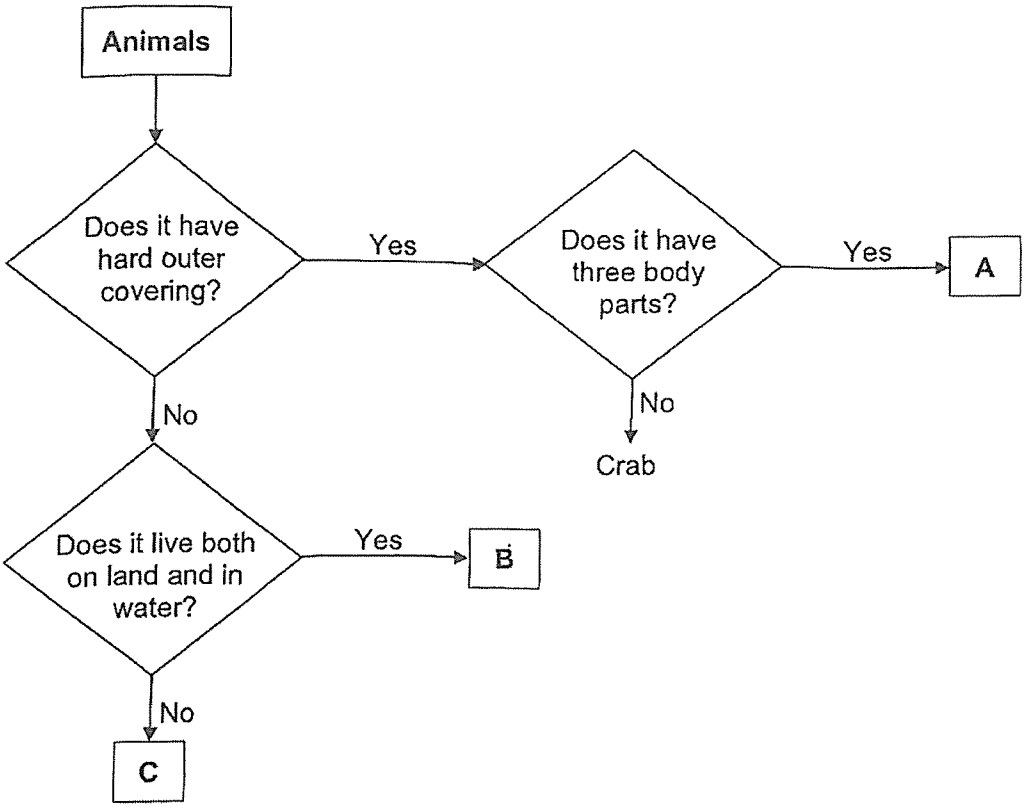
5. Study the flow chart as shown.



Which of the following sub-headings, P, Q, R and S, are correct?

	P	Q	R	S
(1)	Body covering of scales	Hard outer covering	Has moist skin	Body covering of hair
(2)	Hard outer covering	Body covering of hairs	Body covering of scales	Has moist skin
(3)	Lay eggs	Give birth to young	Lay eggs	Give birth to young
(4)	Lay eggs	Give birth to young	Give birth to young	Lay eggs

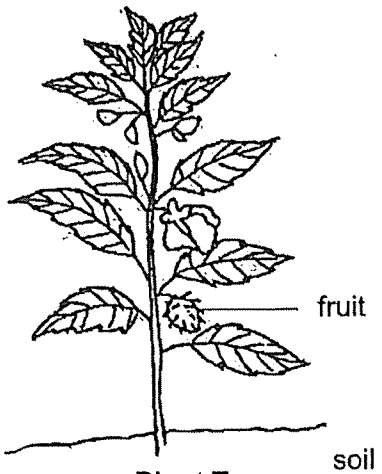
6. Study the following flow chart.



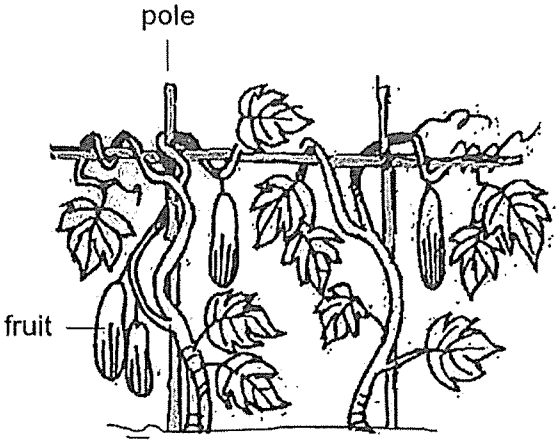
Which of the following groups of animals best represent A, B and C?

	A	B	C
(1)	Bird	Mammal	Fish
(2)	Fish	Amphibian	Mammal
(3)	Insect	Amphibian	Bird
(4)	Insect	Bird	Mammal

7. Study the two plants, T and U, as shown.



Plant T



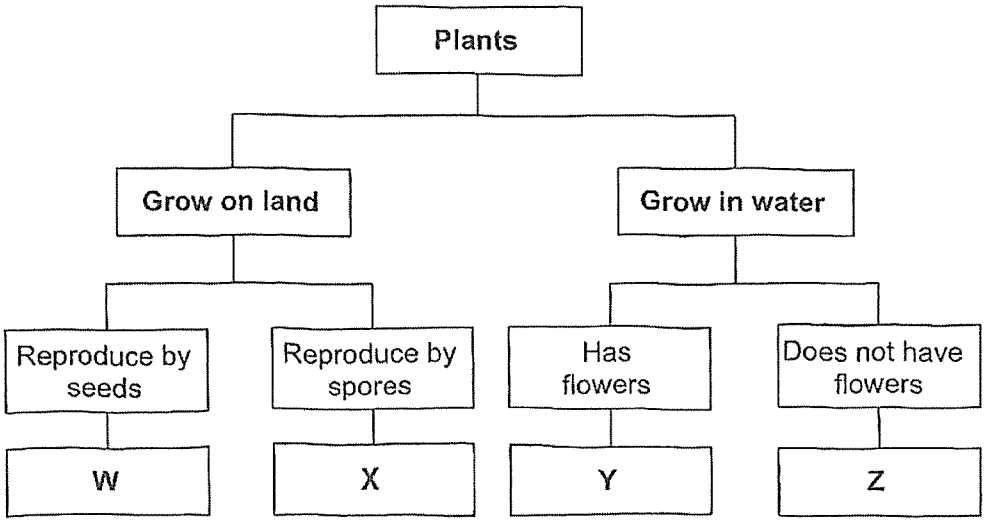
Plant U

Based on the information, which of the following statements about both plants are correct?

A Both plants have leaves.
B Both plants have a weak stem.
C Both plants are flowering plants.
D Both plants reproduce by seeds.

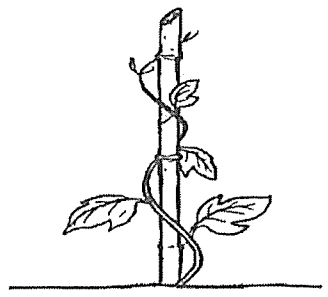
(1) A and B only
(2) C and D only
(3) A, C and D only
(4) B, C and D only

8. Study the classification chart on plants W, X, Y and Z.

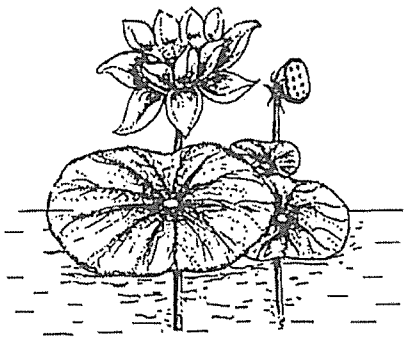


Based on the information, which of the following best represents plant Y?

(1)



(2)



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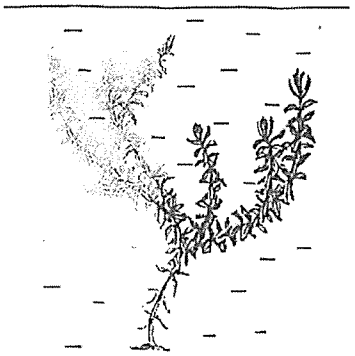

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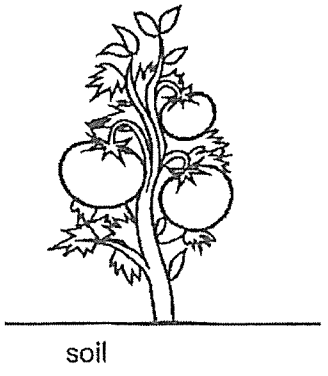
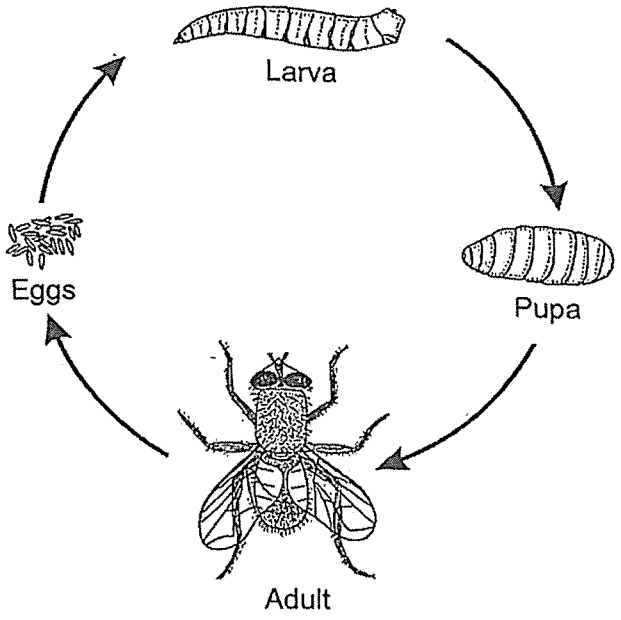


9. Which of the following statements about fungi are correct?

A It responds to changes.
B It is a non-flowering plant.
C It cannot make its own food.
D It can be found growing on rotting log.

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

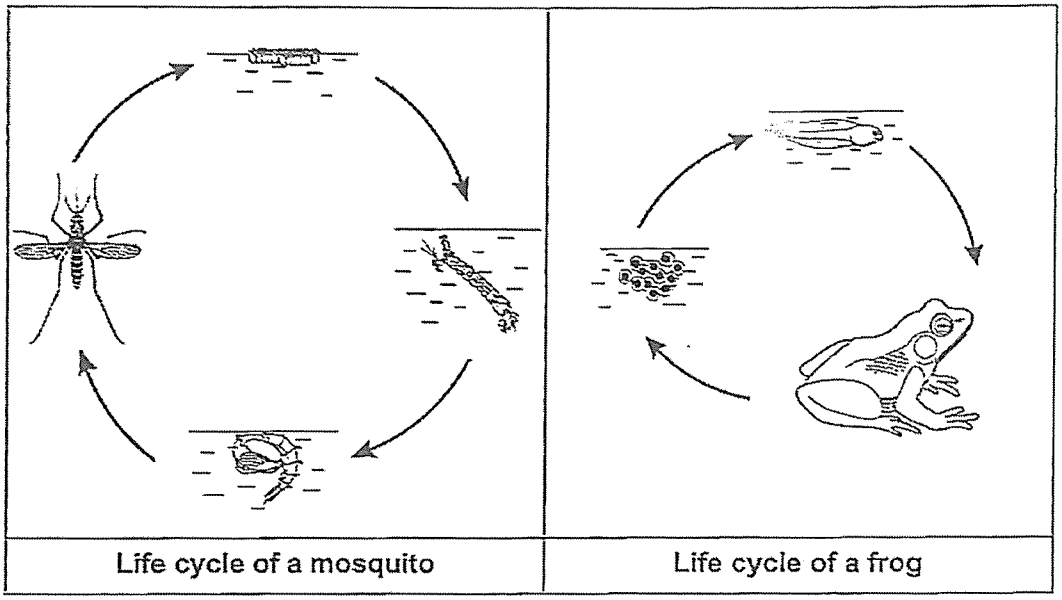
10. The diagram shows a life cycle of animal F.



Based on your observation, which of the following statement is **incorrect**?

(1) It has wings at adult stage.
(2) It has a four-stage life cycle.
(3) Its young resembles the adult.
(4) It lays many eggs at the egg stage.

11. The diagrams show the life cycles of a mosquito and a frog.

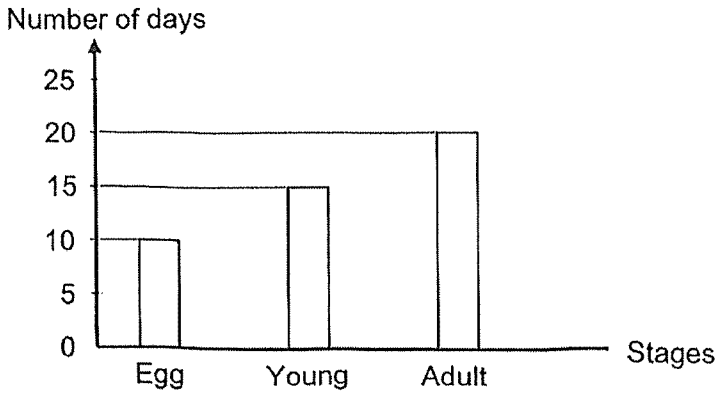


Life cycle of a mosquito	Life cycle of a frog

Based on your observation, which of the following is correct about the life cycles of the mosquito and frog?

	Similarity	Difference
(1)	Both young resemble their adults.	The young of the mosquito lives in water but the young of the frog lives on land.
(2)	Both young live in water.	The adult mosquito lays eggs but the adult frog gives birth to live young.
(3)	Both adults live on land only.	The mosquito has a three-stage life cycle but the frog has a four-stage life cycle.
(4)	Both young do not resemble their adults.	The mosquito has a four-stage life cycle but the frog has a three-stage life cycle.

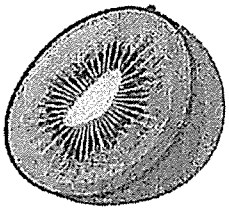
12. The graph shows the number of days organism T spends at each stage of its life cycle.



Based on the information, which of the following statements is true about organism T?

(1) It has a nymph stage in its life cycle.
(2) It is at its young stage on the fifth day.
(3) It lives for twenty days after it is hatched from the egg.
(4) It takes fifteen days to become an adult after it is hatched from the egg.

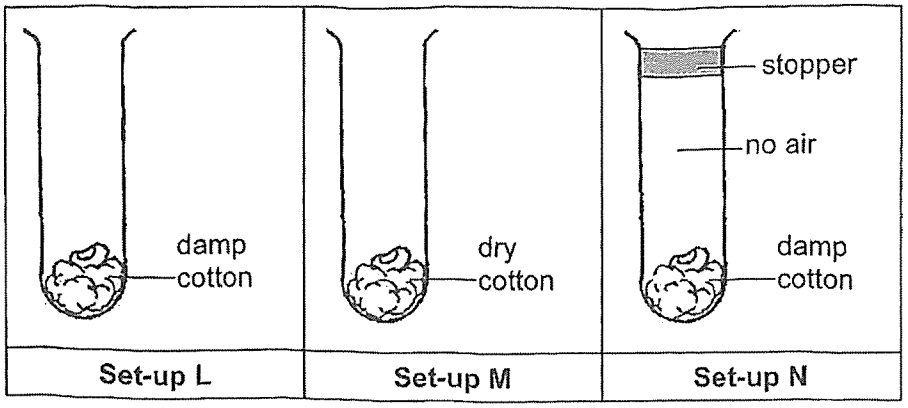
13. Esther found a cut plant part as shown in the diagram.



Based on your observation, which of the following statements about the cut plant part above is **not** correct?

(1) It contains many seeds.
(2) It contains many spores.
(3) It comes from a flowering plant.
(4) It comes from a plant that has a three-stage life cycle.

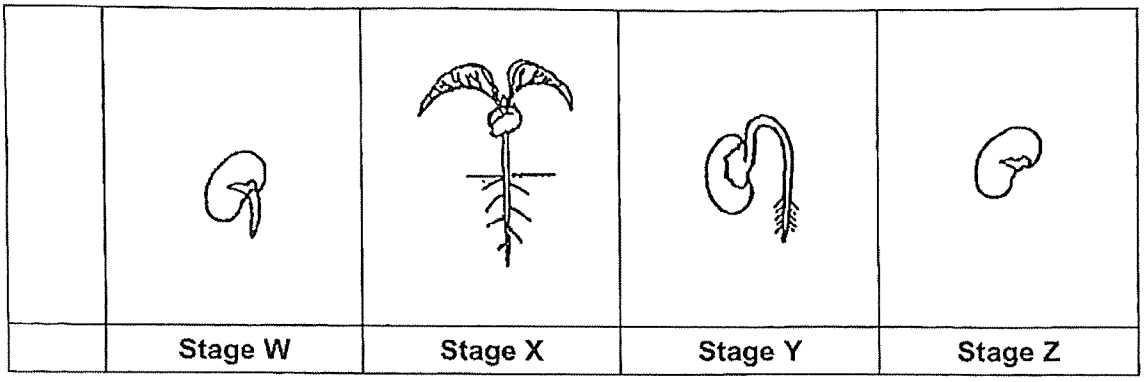
14. Mary put an identical seed in each of the set-ups, L, M and N.
The set-ups were placed near the window.



In which of the following set-up(s), L, M and/or N, will the seed most likely to develop roots after some time?

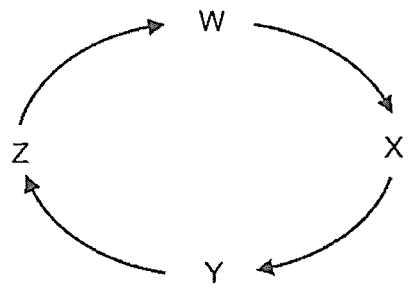
(1) L only
(2) M only
(3) L and M only
(4) L, M and N

15. The diagram shows the different stages of growth of a plant.



Which of the following shows the correct order of stages of growth of the plant?

(1)



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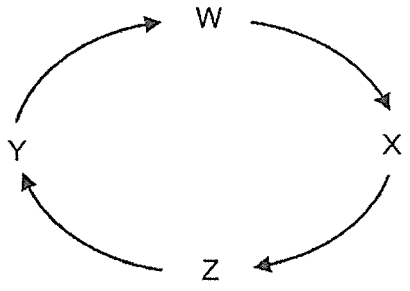

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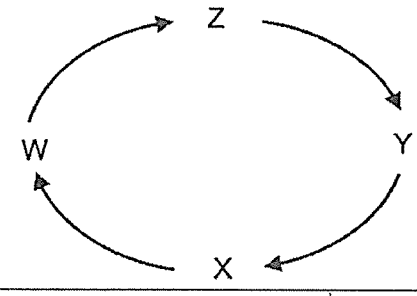

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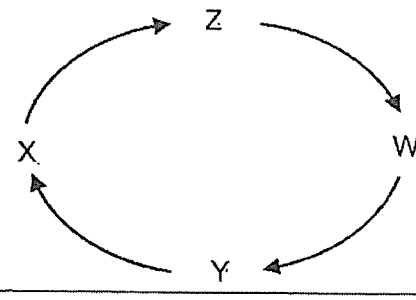


16. The diagram shows a person standing on his toes on his right foot.

What is the property of the material most suitable to make part K of the shoe to allow the person to stand on his toes on his right foot?

(1) It is stiff.
(2) It is flexible.
(3) It is waterproof.
(4) It is able to float on water.

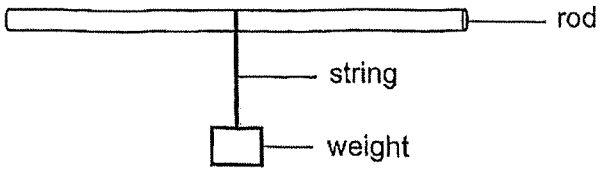
17. The table shows some items classified according to the materials they are made of.

Material A	Material B	Material C	Material D
Nail	Mirror	Towel	Pail
Ladder	Light bulb	Blanket	Book cover

Which of the following shows materials, A, B, C and D, correctly?

	A	B	C	D
(1)	Metal	Glass	Fabric	Plastic
(2)	Rubber	Ceramic	Plastic	Fabric
(3)	Plastic	Metal	Wood	Rubber
(4)	Wood	Rubber	Ceramic	Metal

18. Helen wanted to find out the strength of strings, P, Q, R and S, by setting up an experiment as shown. She hung a weight on each string one at a time, until it started to break.



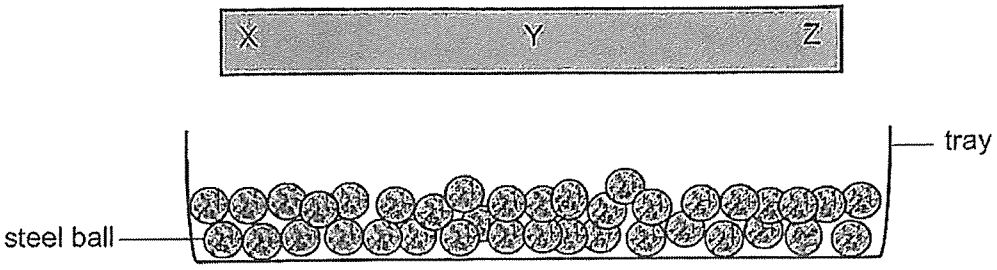
She recorded her observations in the table.

String	P	Q	R	S
Number of weights hung until the string started to break	9	3	7	12

Which of the following best represents the weakest and strongest strings?

	Weakest	Strongest
(1)	R	P
(2)	Q	S
(3)	P	R
(4)	S	Q

19. A bar magnet was labelled, X, Y and Z as shown in the diagram.

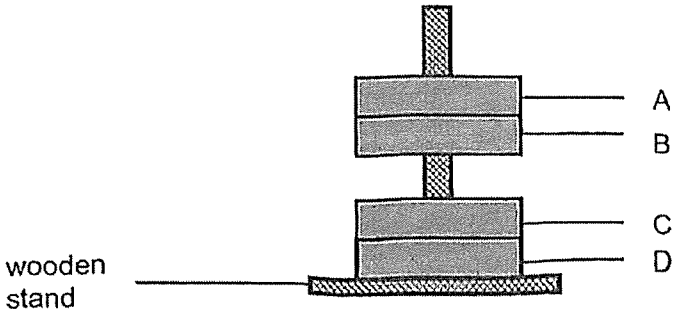


The bar magnet was brought near a tray of steel balls.

Which of the following shows the most possible number of steel balls attracted by each part of the bar magnet?

	Number of steel balls attracted to each part		
	X	Y	Z
(1)	2	9	7
(2)	4	8	7
(3)	6	7	8
(4)	9	2	7

20. Four rings, A, B, C and D were stacked through a wooden stand as shown in the diagram.



Based on the information, which of the following best represents rings A, B, C and D?

	A	B	C	D
(1)	Magnet	Magnet	Magnetic object	Magnet
(2)	Non-magnetic object	Magnet	Magnetic object	Magnet
(3)	Non-magnetic object	Magnet	Magnet	Magnetic object
(4)	Magnet	Non-magnetic object	Magnet	Non-magnetic object

21. Which of the following statement(s) is/are true about magnets?

A Unlike poles of two magnets will attract each other.

B The strength of a magnet does not depend on its size.

C All metals can be made into magnets using the electrical method.

D Dropping a magnet from a height many times can cause a magnet to lose its magnetism.

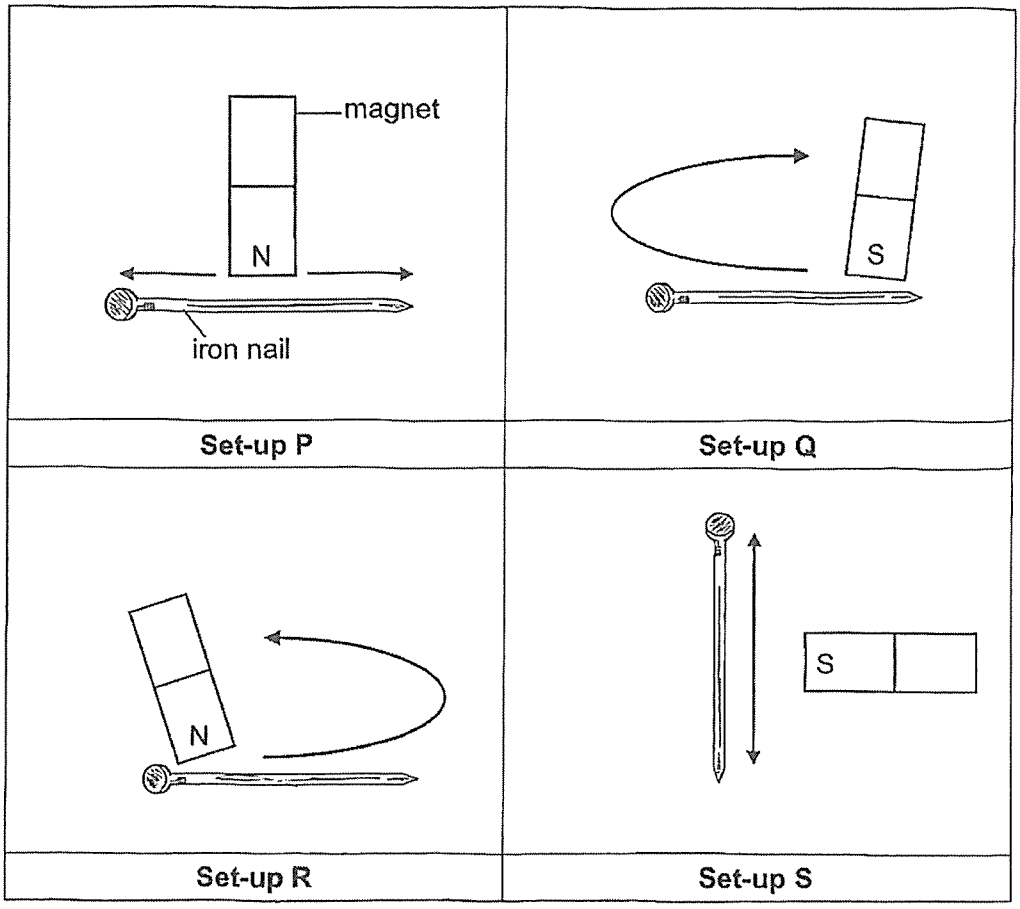
(1) A and C only

(2) A and B only

(3) A, B and D only

(4) B, C and D only

22. Mrs Tay prepared four set-ups, P, Q, R and S. She wanted to make the identical iron nails in each set-up into a temporary magnet by stroking them with a bar magnet as shown, twenty times.

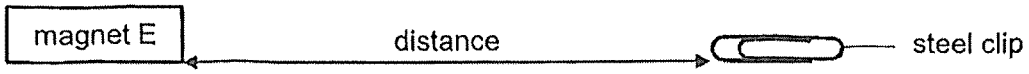


Set-up P	Set-up Q
Set-up R	**Set-up S**

Based on the information, which of the set-up(s) show(s) the correct way of magnetising the nail?

(1) P only
(2) P and Q only
(3) Q and R only
(4) P, Q, R and S

23. Naveen compared the magnetic strength of four bar magnets, E, F, G and H. He slowly moved each magnet closer to the steel clip. The diagram shows the distance between magnet E and the steel clip just before it was attracted by the magnet.



He repeated the experiment with bar magnets, F, G and H and recorded the results in a table as shown.

Magnet	Distance between magnet and steel clip (cm)
E	7
F	11
G	8
H	2

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

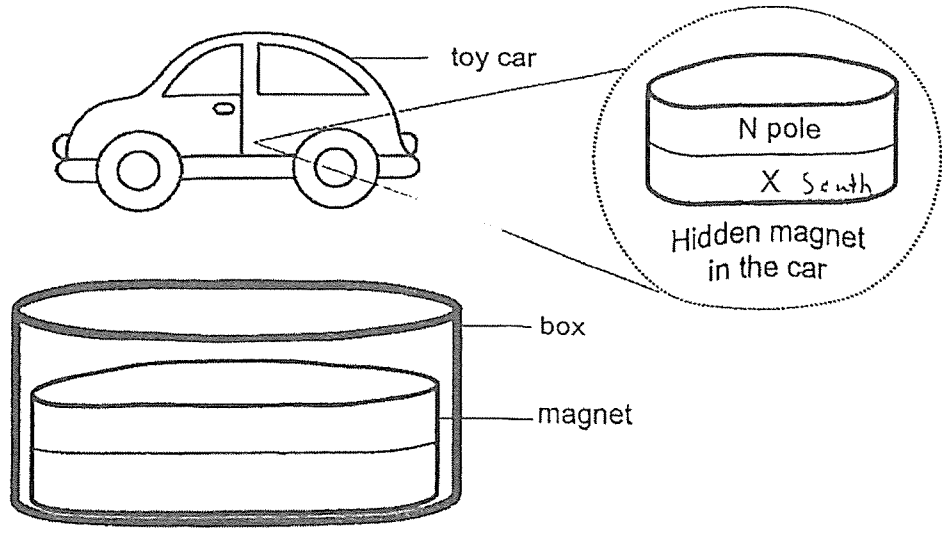
(1) Magnet H is the weakest.

(2) Magnet G is the strongest.

(3) Magnet F is weaker than magnet G.

(4) Magnet E is stronger than magnet F.

24. Lyla performed a magic trick using her toy car by making it float above a box as shown in the diagram.



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

	Pole X	Pole Y
(1)	S Pole	S Pole
(2)	S Pole	N Pole
(3)	N Pole	S Pole
(4)	N Pole	N Pole

RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY THREE
2024

SCIENCE
(BOOKLET B)

Name: _____ (Date : 24 October 2024

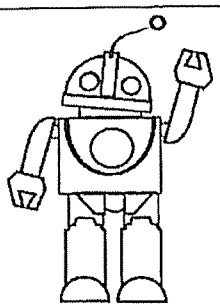
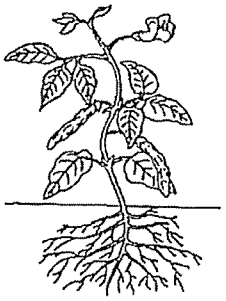
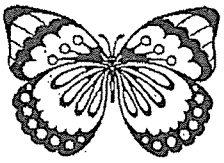
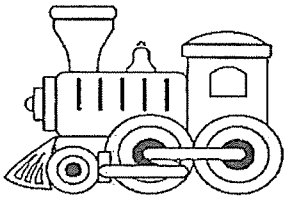
Class: P3 __ Total Time : 1h 30min

INSTRUCTIONS TO CANDIDATES

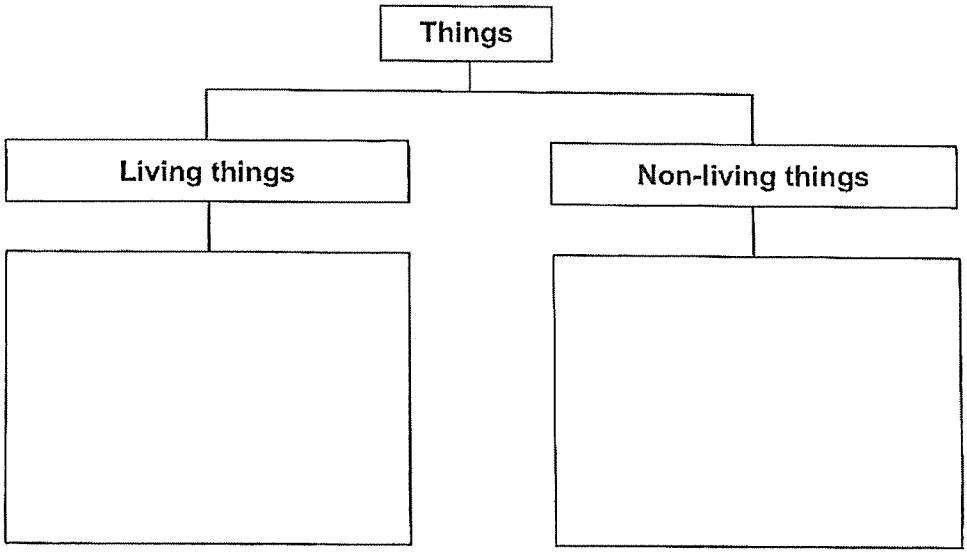
1. Write your name, class and index number in the spaces provided above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. For questions 25 – 37, write your answers clearly in the spaces provided.
6. The number of marks is shown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

Score	/32

25. The diagram shows four objects.

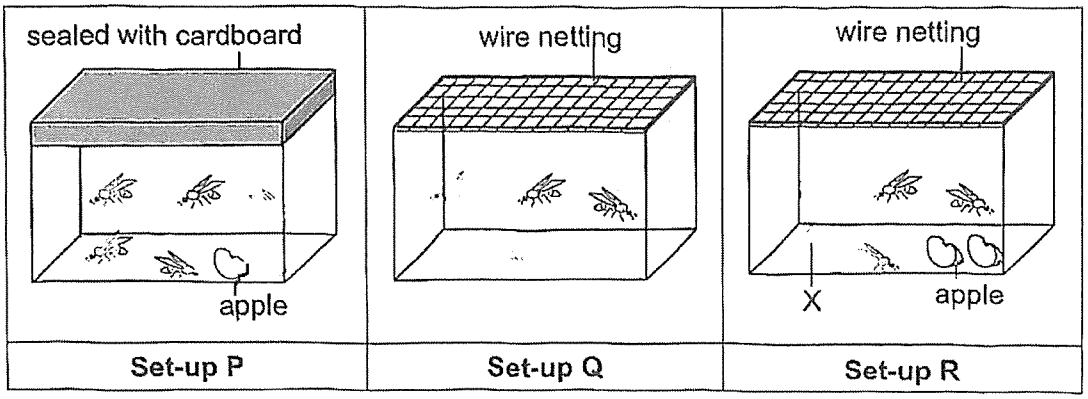
	
Robot	Plant
	
Butterfly	Train

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



Score	2

26. Zen prepared three set-ups, P, Q and R, using identical containers. Each contained five organisms X. Two slices of apple were placed only in set-ups P and R.



Based on the information, answer the following questions.

(a) Which two set-ups should he use to find out if living things need food to survive? [1]

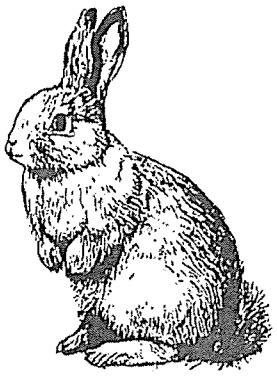
_____

(b) Put a tick (✓) in the correct box(es) to identify the variable(s) that need(s) to be kept the same in order for Zen to conduct a fair test for (a) above. [1]

Variables	Tick (✓)
Size of container	
Number of organism X	
Number of apple slices	

Score	2

27. Study animals X and Y shown in the diagrams.

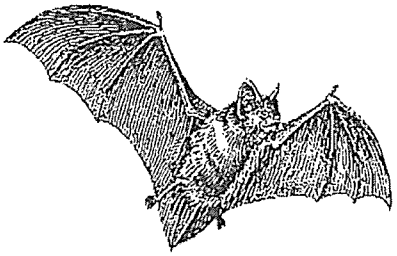
	
Animal X	**Animal Y**

(a) State the animal groups that animals X and Y belong to. [1]

Animal X: _____

Animal Y: _____

The diagram shows animal B.



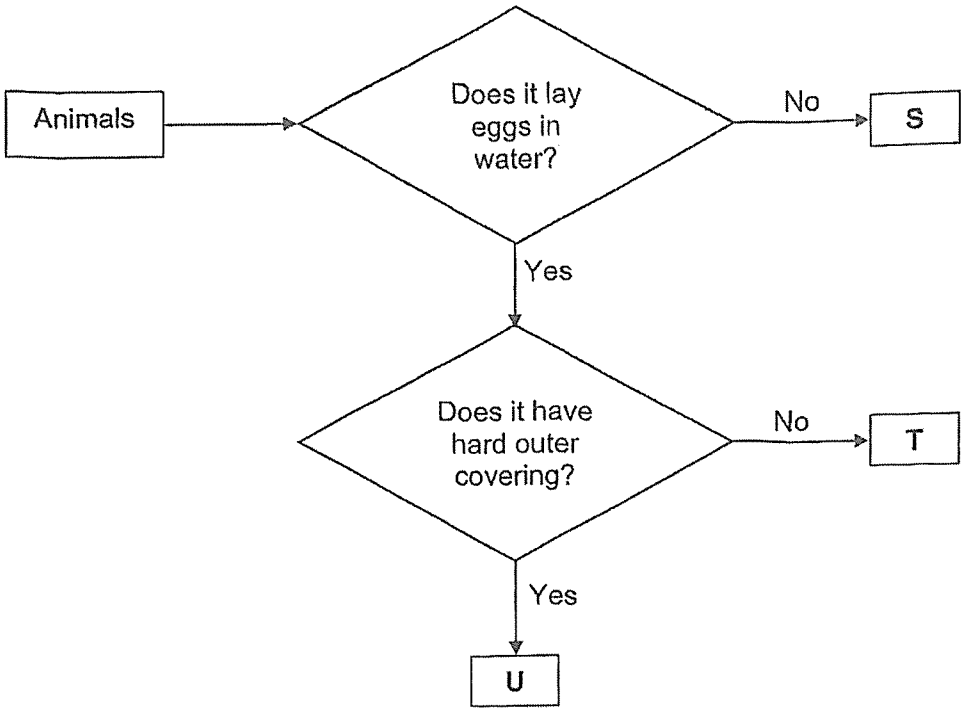
(b) Does animal B belong to the same group as animal X or animal Y?
Give a reason for your answer. [1]

_____

_____

Score	/2

28. Study the flowchart.



Based on the flowchart, answer the following questions.

(a) State one difference between animals S and U. [1]

_____

_____

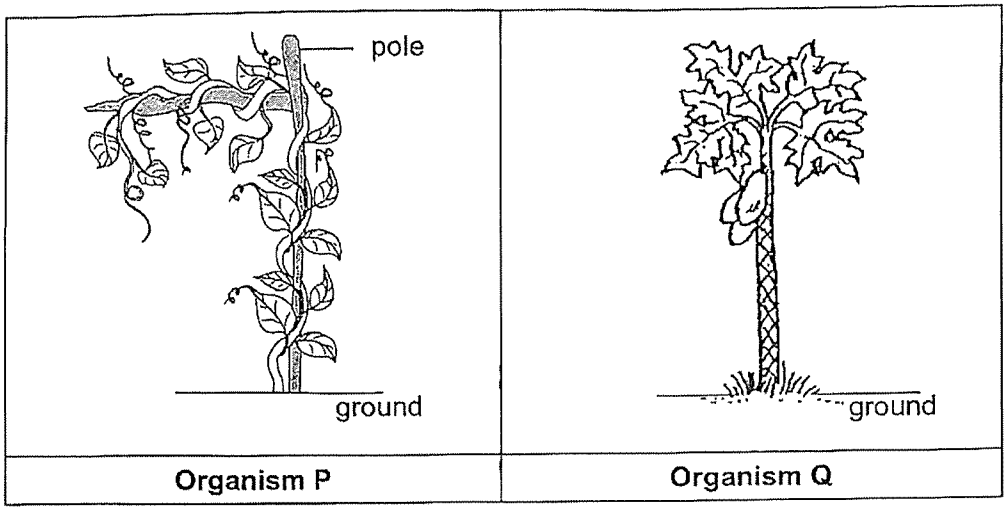
(b) State all the characteristics of animal T. [2]

_____

_____

Score	/ 3

29. Study organisms P and Q as shown in the diagrams.



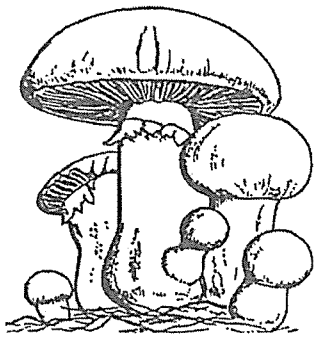
Organism P	Organism Q

Put a tick (✓) in the correct box for each statement. [2]

	Statements	True	False
(a)	Organism P has weak stem but organism Q has strong stem.		
(b)	Organism P grows in water but organism Q grows on land.		
(c)	Organism P is a flowering plant but organism Q is a non-flowering plant.		
(d)	Organism P reproduces by spores but organism Q reproduces by seeds.		

Score	2

30. (a) The diagrams show organisms M and N.

	
Organism M	**Organism N**

Based on your observations, state how organisms M and N reproduce. [1]

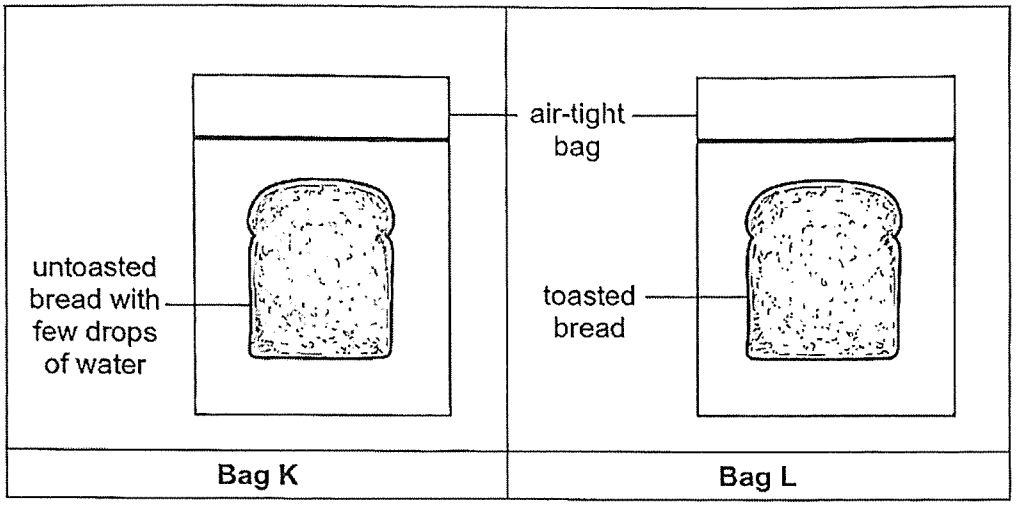
Organism M	
Organism N	

Continue on page 25

Score	/ 1

Continued from page 24

(b) Iman placed a slice of identical bread in each of the air-tight bags, K and L. He sprinkled a few drops of water on the bread in bag K but toasted the bread in bag L. He left both the bags near a window.



(i) Iman observed mould growing on the bread in bag K but not on the bread in bag L. Give a reason for his observation. [1]

_____

_____

(ii) Suggest what Iman could have done to prevent mould from growing on the bread in bag K. [1]

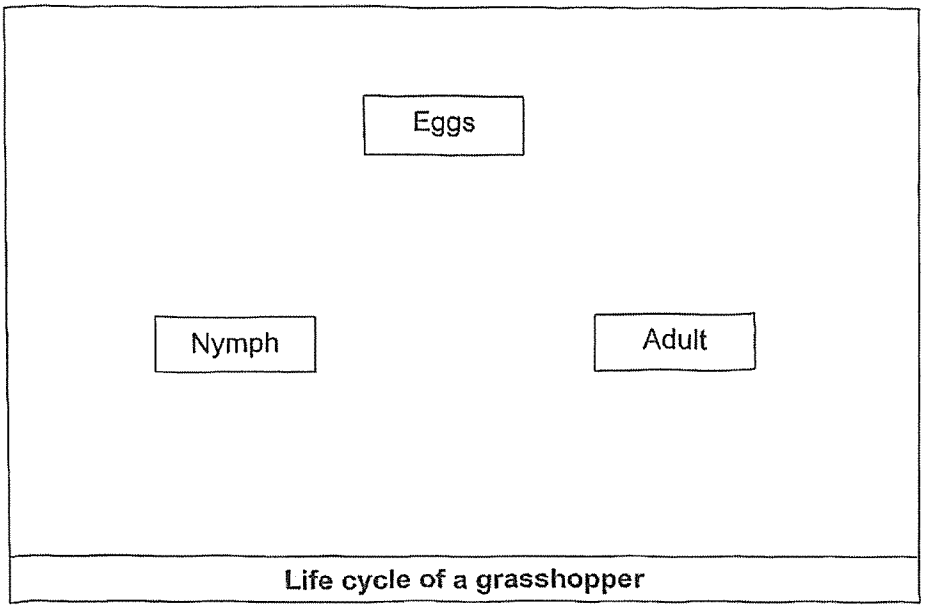
_____

_____

Score	2

31. The diagram shows the life cycle of a grasshopper.

(a) Complete the life cycle of the grasshopper by drawing arrows in the diagram shown. [1]

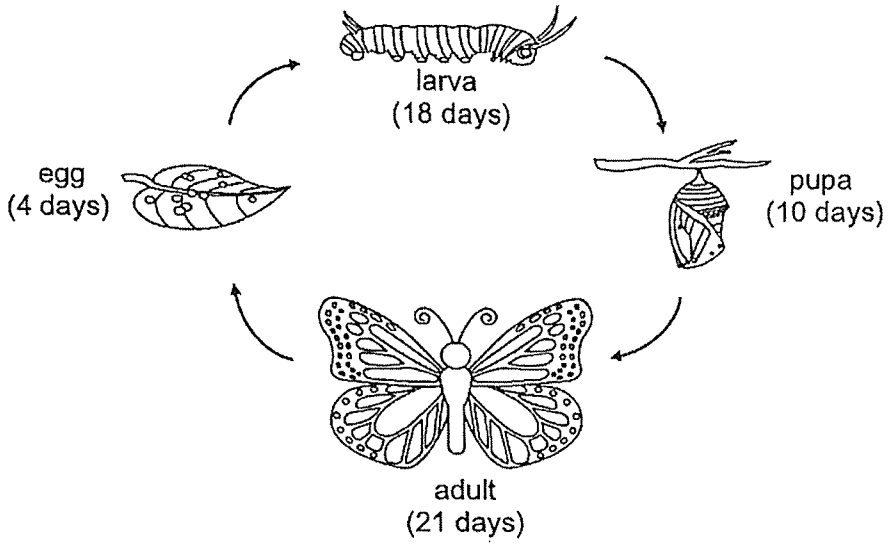


(b) Name another animal that has a similar life cycle as a grasshopper. [1]

_____

Score	2

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



Life cycle of a butterfly

(a) At which stage of its life cycle would the butterfly be a pest to gardeners? Explain your answer. [2]

_____

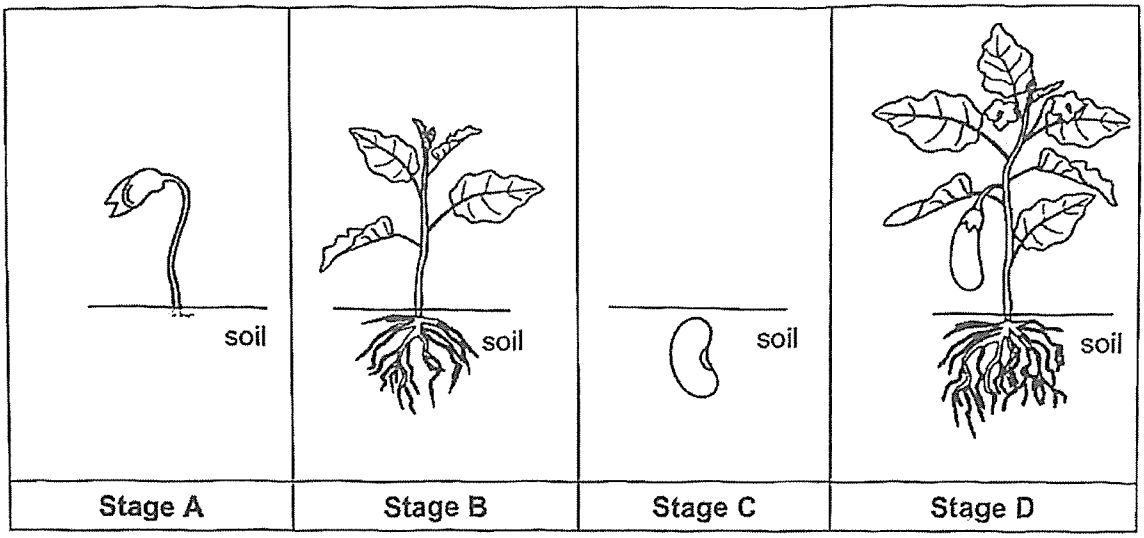
_____

(b) How many days does the butterfly spend eating in its life cycle? [1]

_____

Score	/3

33. The diagram shows the different stages, A, B, C and D, in the life cycle of a flowering plant.



(a) At which stage is the plant an adult plant? [1]

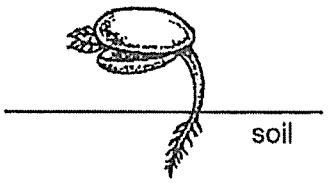
_____

(b) At which stage(s) can the plant make its own food? [1]

_____

Score	2

34. The diagram shows one of the stages in the life cycle of a plant.



(a) Name the stage of the plant's life cycle. [1]

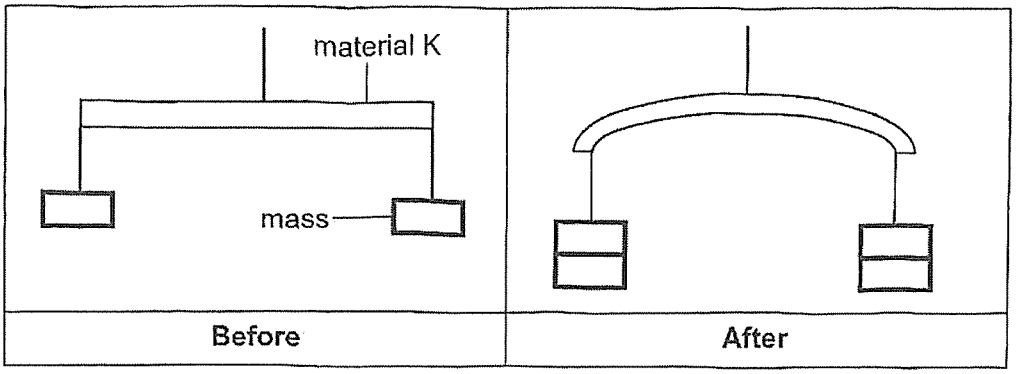
_____

(b) Put a tick (✓) for the condition(s) that the plant need(s) to grow at this stage. [1]

Conditions	Tick (✓)
Air	
Food	
Water	
Sunlight	

Score	/ 2

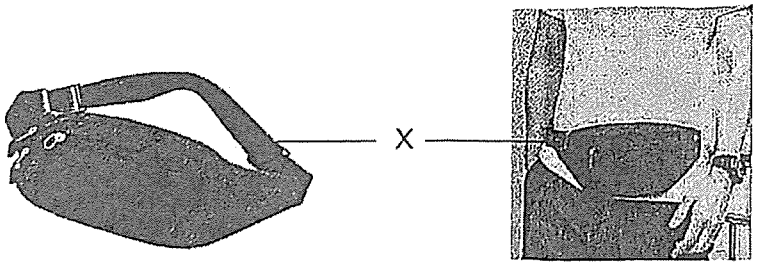
35. Peter conducted an experiment to find out the flexibility of materials K, L and M. He hung identical masses on both ends of a rod made of material K as shown in the diagram.



He added equal masses on both ends of the rod until it started to bend. The experiment was repeated using rods made of materials L and M. He recorded the results in the table.

Material	Total number of masses added until the rod started to bend
K	2
L	12
M	8

He would like to use one of the three materials, K, L or M, to make part X of a waist pouch as shown in the diagrams.

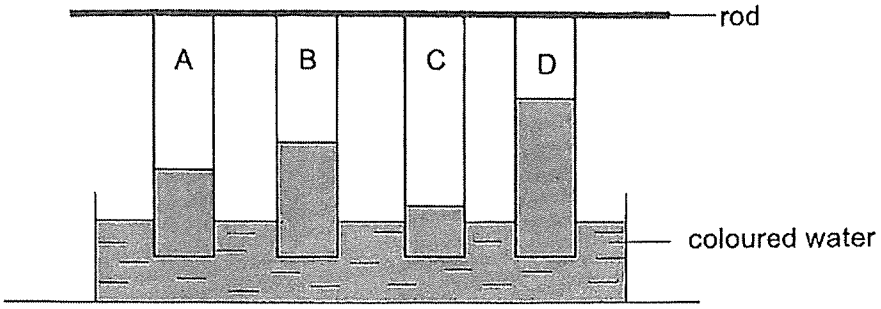


Which material, K, L or M, will be the most suitable for making part X?
Explain your answer. [2]

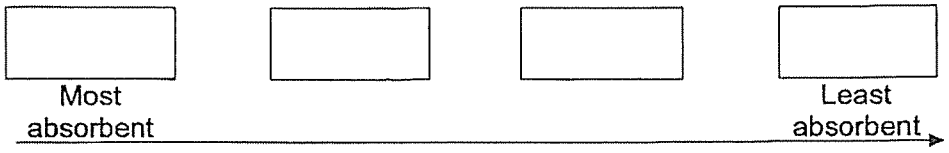
Score 2

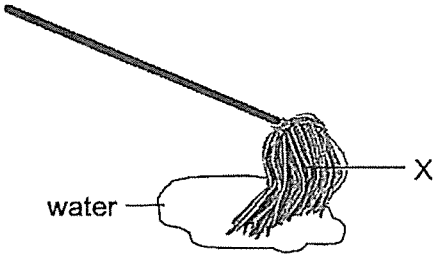
36. Four strips of identical lengths made of different materials, A, B, C and D, were placed into a tray of coloured water.

The diagram shows the amount of coloured water each strip absorbed after five minutes.



(a) Based on the information above, arrange the strips from the most absorbent to the least absorbent. [1]





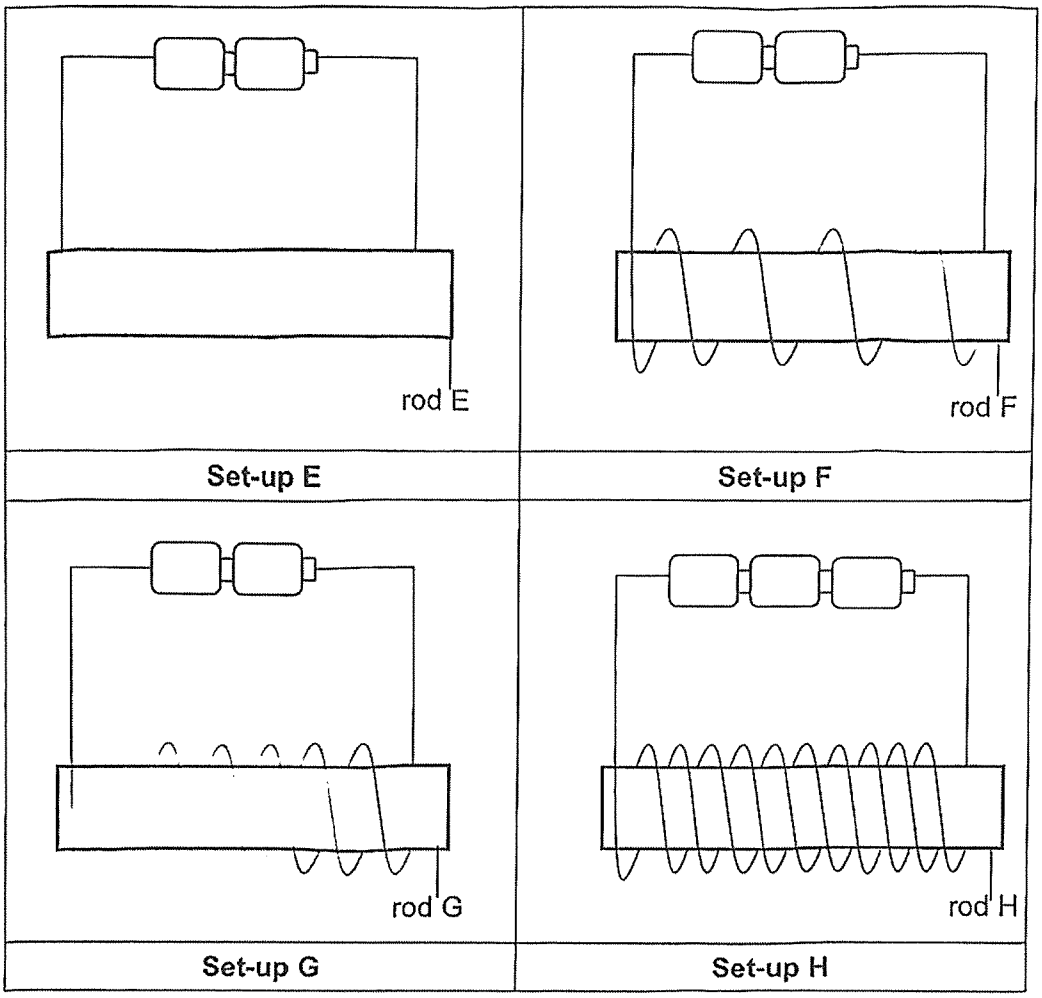
(b) Based on the information, which material, A, B, C or D, is most suitable to make part X of a mop to clean up a puddle of water most quickly?
Explain your answer. [2]

_____

_____

Score	3

37. Clara made an electromagnet by coiling wires around a rod. She used identical batteries, rods and wires in each of the four set-ups as shown.



(a) Name a suitable material that can be used to make the rod. [1]

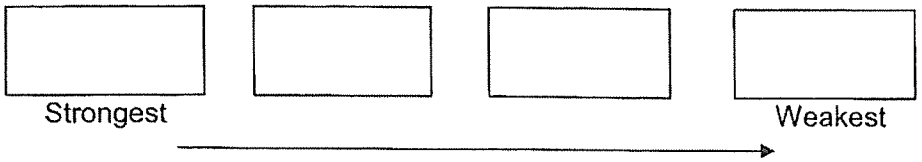
_____

Score	/ 1

Continue on page 33

Continued from page 32

(b) Arrange the rods, E, F, G and H, according to its magnetic strength starting from the strongest to the weakest. [1]



Clara chose set-ups G and H to find out if the number of coils around a rod affects the strength of the electromagnet.

(c) Suggest a change that Clara should make to the set-up(s) such that the experiment is a fair test. [1]

Clara brought rod G near a box of steel pins. She observed that rod G attracted seven steel pins.

(d) If rod G is made of aluminium, predict the number of steel pins it can attract. Explain your answer. [1]

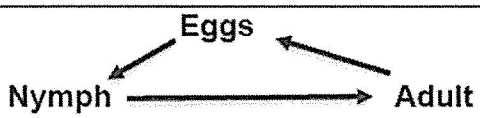
End of Paper

Score	3

SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
LEVEL : PRIMARY 3
SUBJECT : SCIENCE
TERM : 2024 SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	1	4	2	3	3	3	2	3	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	4	2	1	4	2	1	2	4	3
Q21	Q22	Q23	Q24						
3	3	1	1						

Q25)	Living things --- Butterfly / Plant Non-living things --- Robot / Train
Q26)	a)Q and R b)Size of container Number of organism X
Q27)	a)X: reptile Y: mammal b)Animal Y, because Animal Y and Animal B both have hair or fur for its outer covering.
Q28)	a)S does not lay its egg in water but U lays its eggs in water. b)Animal T lays its eggs in water and it does not have a hard outer covering.
Q29)	a)True b)False c)False d)True
Q30)	a) M: By spores N: By spores b) i)There is presence of water on the bread in Bag K but no water on the bread in Bag L which caused the mould to grow on the bread in Bag K. ii)He could have not put on the drops of water and to ask it.

Q31)	a)  b) The cockroach
Q32)	a) At the larva stage,because at that stage, the larva will eat a lot of leaves for it to become a pupa, and eating the leaves of gardens will cause the plants to wilt and so it will become a pest to gardeners. b) 39 days.
Q33)	a) Stage D. b) B and D
Q34)	a) The young b) Air / Food / Water
Q35)	Material K. Least masses were added to Material K until the rod started to bend. It is the most flexible material so it can go round a person's waist.
Q36)	a)D , B , A , C b)D. It is the most absorbent of the coloured water. It is the most absorbent material to make into part X of the mop to keep the floor dry the fastest.
Q37)	a) Steel. b) H, G, F, E c) Clara should take out one of the batteries in set-up H such that the experiment is a fair test. d) Aluminium is a non-magnetic material. Only magnetic material can be magnetised.