PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

END-OF-YEAR EXAMINATION 2024

PRIMARY THREE

SCIENCE

BOOKLET A

NAME : _____( )

CLASS : **P3** _____

DATE : **22 OCTOBER 2024**

TOTAL TIME FOR BOOKLETS A & B: 1 hour and 30 minutes

INSTRUCTIONS TO PUPILS

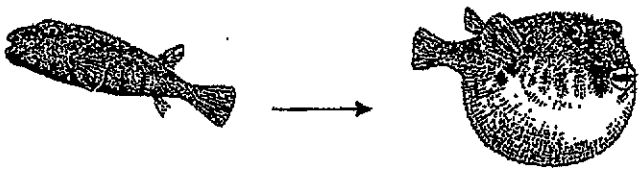
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

ANSWER ALL QUESTIONS.

Section A (24 x 2 = 48 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. The diagram below shows a pufferfish puffing up its body when it is in danger.

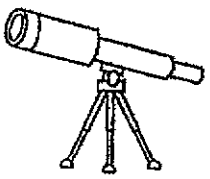


From the diagram, it can be concluded that the pufferfish is a living thing because it _____.

(1) grows
(2) reproduces
(3) responds to changes
(4) needs air, food and water

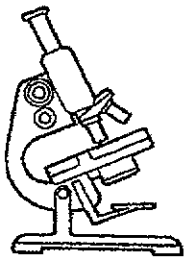
2. Which of the following equipment is the most suitable for observing bacteria?

(1)



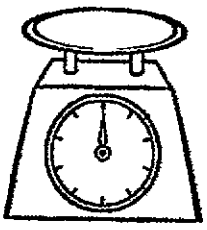
telescope

(2)



microscope

(3)



weighing scale

(4)

magnifying glass

3. Which of the following statements about plants is true?

(1) All plants have fruits.
(2) All plants make their own food.
(3) All plants have colourful flowers.
(4) All plants feed on other living things for food.

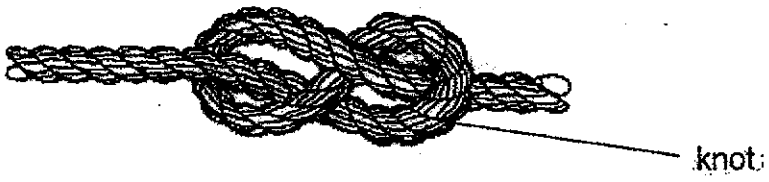
4. Sue observed an animal in the park and recorded her observations below.

- It lays eggs.
- It has moist skin.
- It can live on land and in water.

Which group does the animal belong to?

(1) Bird
(2) Fish
(3) Reptile
(4) Amphibian

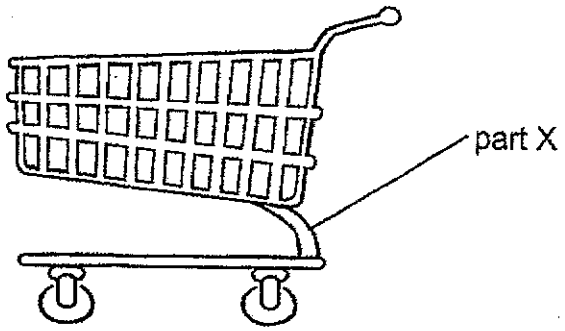
5. Clair can tie a knot using the rope shown below.



The rope is _____.

(1) strong
(2) flexible
(3) waterproof
(4) transparent

6. The diagram below shows a trolley.



The material that made part X of the trolley must be _____.

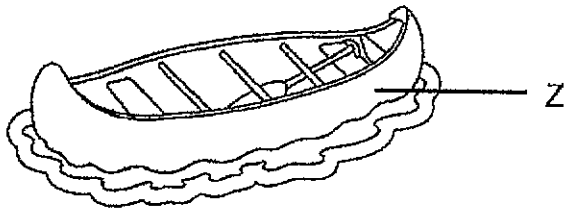
(1) strong

(2) flexible

(3) able to float

(4) able to allow light to pass through

7. The diagram below shows a boat.



Material Z is used to make a boat. Which of the following properties of material Z makes it suitable for making a boat?

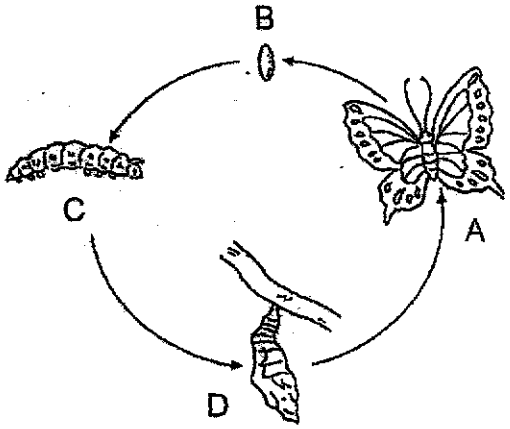
(1) Does not absorb water

(2) Allows light to pass through

(3) Bends easily without breaking

(4) Does not tear easily when pulled.

8. The diagram below shows the life cycle of a butterfly.



Why is the butterfly considered a pest to gardeners at stage C?

(1) It moults.

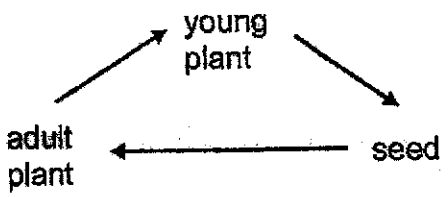
(2) It does not eat or move at all.

(3) It feeds on the leaves of the plants.

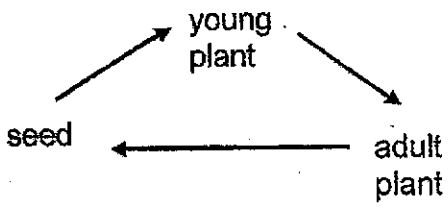
(4) It flies around the flowers of the plants.

9. Which one of the following correctly shows the life cycle of a bean plant?

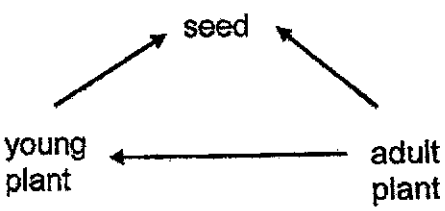
(1)



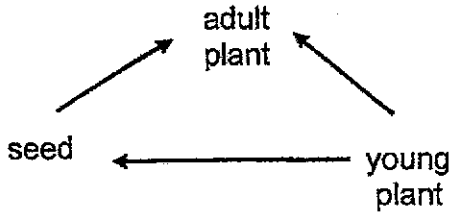
(2)



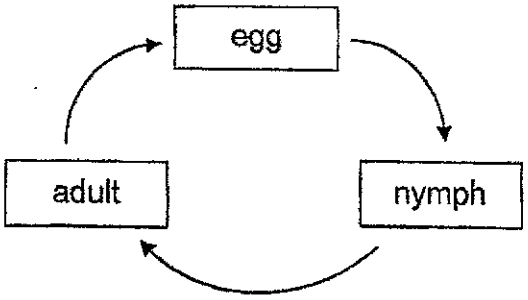
(3)



(4)



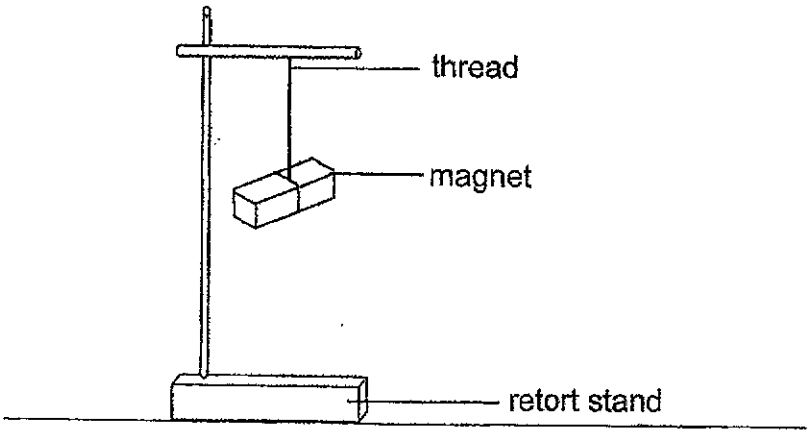
10. The diagram below shows the life cycle of an animal.



Which one of the following animals has its life cycle as shown above?

(1) frog
(2) beetle
(3) chicken
(4) cockroach

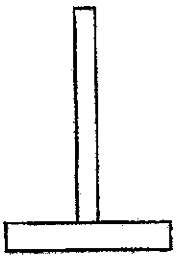
11. The diagram below shows a freely suspended magnet.



A freely suspended magnet always points in the _____ direction.

(1) East-West
(2) North-East
(3) South-West
(4) North-South

12. David was given some objects as shown below.



wooden holder

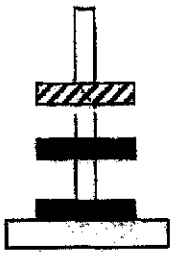
ring magnets

plastic ring

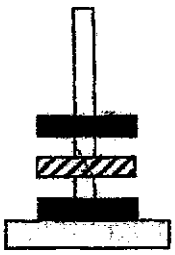
He placed the ring magnets and plastic ring onto the wooden stand in different ways.

Which set-up below is possible?

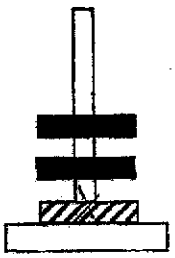
(1)



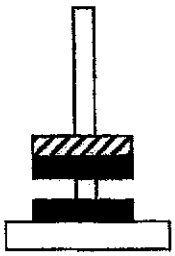
(2)



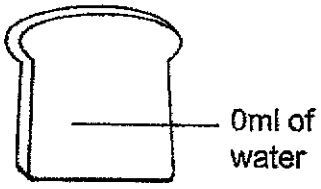
(3)



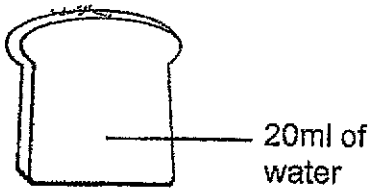
(4)



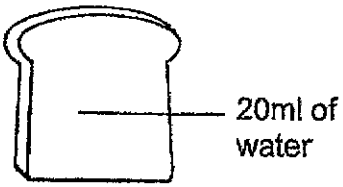
13. Mary prepared four set-ups using similar slices of bread as shown below. She wanted to find out if warmth is needed for mould to grow.



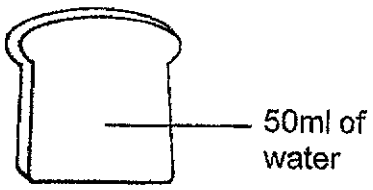
Set-up W
(placed on the kitchen table)



Set-up X
(placed on the kitchen table)



Set-up Y
(placed in the refrigerator)

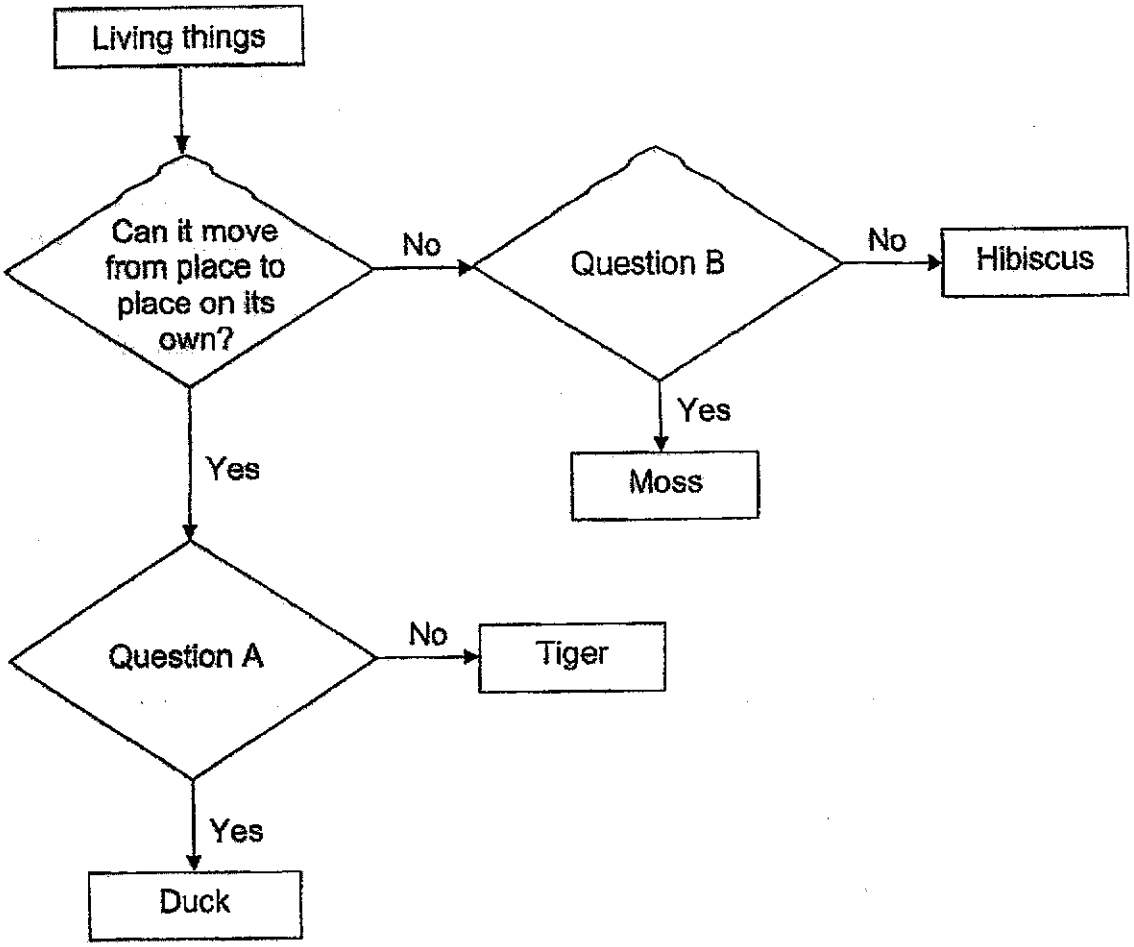


Set-up Z
(placed in the refrigerator)

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

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

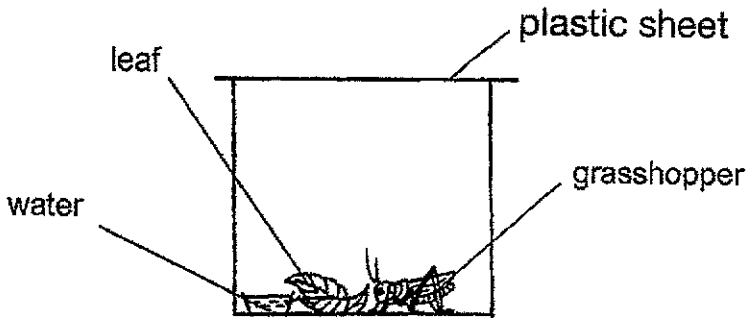
14. Study the flow chart below.



Which of the following best represents questions A and B respectively?

	Question A	Question B
(1)	Does it give birth?	Does it reproduce by seeds?
(2)	Does it have hair?	Is it a land plant?
(3)	Does it lay eggs?	Does it reproduce by spores?
(4)	Does it have a beak?	Does it make food?

15. The diagram shows how Peter kept his pet grasshopper. He kept it in a container with some leaves, water and covered the container with a plastic sheet. His mother told him that his grasshopper would not survive.



What should Peter do to ensure that the grasshopper could survive?
He should _____.

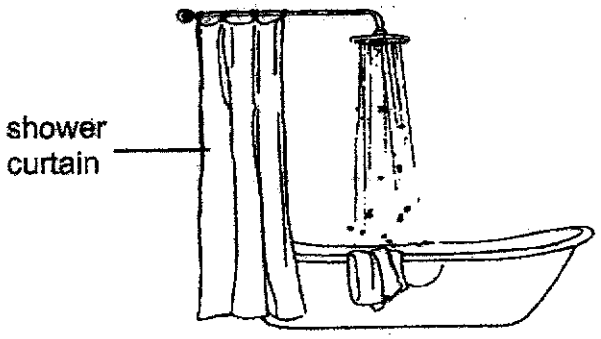
(1) use a smaller container

(2) add fewer leaves and water

(3) poke some holes in the plastic sheet

(4) add more grasshoppers into the container

16. Mei Ling wanted to use the shower curtain to prevent water from splashing out of her wet bathroom area and to keep it folded when not in use.



The table below shows the properties of four materials, A, B, C and D.
A tick (✓) indicates that the material has the property.

	A	B	C	D
Flexible	✓	✓		
Waterproof		✓	✓	
Strong			✓	✓

Which one of the materials A, B, C or D, will be most suitable to make the shower curtain?

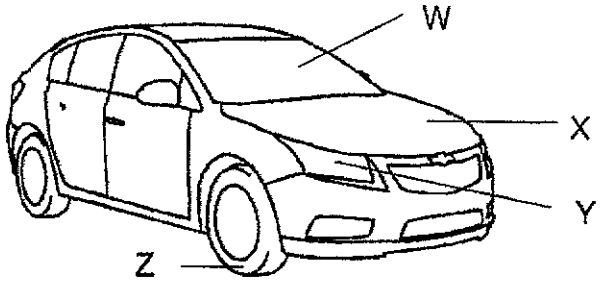
(1) A

(2) B

(3) C

(4) D

17. Study the diagram below.



Which one of the following parts of the car is correctly matched to the materials that it is made of?

	Part	Material
(1)	W	glass
(2)	X	fabric
(3)	Y	wood
(4)	Z	ceramic

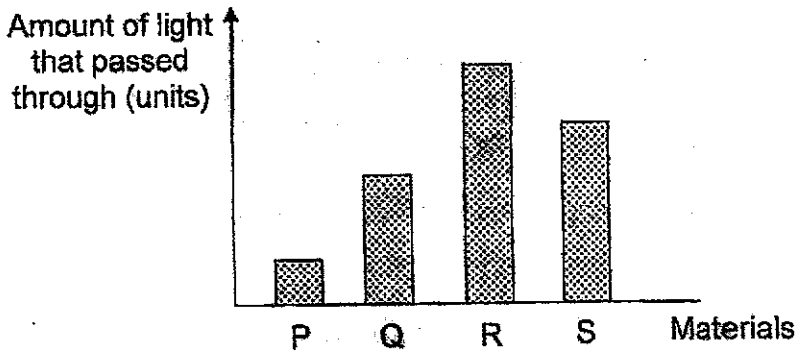
18. Jenny tested a property of three pieces of different materials, P, Q and R, and recorded her observation as shown in the table below.

	Material P	**Material Q**	**Material R**
When water was poured on it	All the water stayed on the surface	All the water stayed on the surface	Water was absorbed
When it was dropped from a table	Broke into pieces	Broke into pieces	Remained the same

Which of the following correctly describes materials P, Q and R?

	P	Q	R
(1)	Ceramic	Glass	Fabric
(2)	Glass	Ceramic	Metal
(3)	Plastic	Metal	Glass
(4)	Glass	Metal	Fabric

19. John conducted an experiment to measure the amount of light that passed through four different materials, P, Q, R and S. The materials were of the same size and thickness. The bar graph below shows the results of his experiment.



Based on the results above, which one of the following statements is correct?

(1) Material P does not allow any light to pass through.

(2) Material R allows the least amount of light to pass through.

(3) Material Q allows less light to pass through as compared to material S.

(4) Material P allows more light to pass through as compared to material Q.

20. Three students made statements about the life cycles of animals.

Anne: All life cycles start with an egg and end with an adult.

Betty: All living things have the same life cycles.

Carol: Life cycles ensure the survival and continuity of living things.

Who made the correct statement(s)?

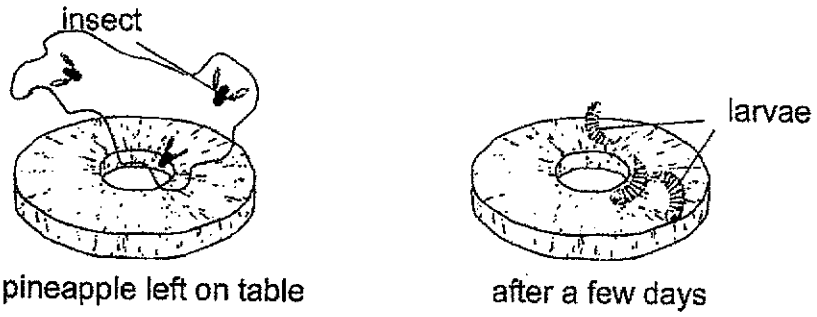
(1) Carol only

(2) Anne and Betty only

(3) Anne and Carol only

(4) Anne, Betty and Carol

21. A slice of pineapple was left on the table as shown.



After a few days, larvae were found on the pineapple.

Which of the following statements best explains how the larvae got there?

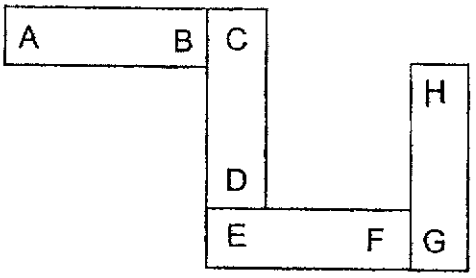
(1) They came from the pineapple plant.

(2) They came from the sliced pineapple.

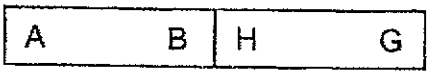
(3) They came from eggs laid by insects.

(4) They came from fungi growing on the pineapple.

22. Four bar magnets with their ends marked A to H are arranged as shown below.

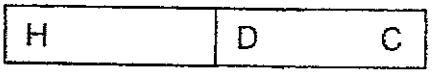


Which one of the following shows a possible arrangement of two magnets?

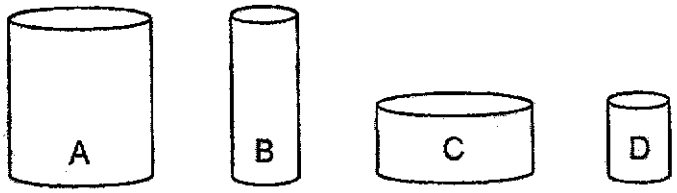
(1) 

(2) 

(3) 

(4) 

23. Andy had four magnets, A, B, C and D, of different sizes as shown below. He placed them, one at a time, into a box of steel pins.



He counted the number of pins each magnet had attracted and recorded the results in the table below.

Magnet	**A**	**B**	**C**	**D**
Number of pins attracted	20	34	12	48

Based on the table above, which statement is true?

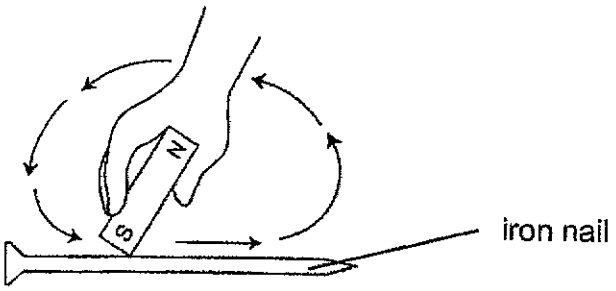
(1) The strength of a magnet depends on its size.

(2) The strength of a magnet does not depend on its size.

(3) Bigger magnets are always stronger than smaller magnets.

(4) Smaller magnets are always stronger than bigger magnets.

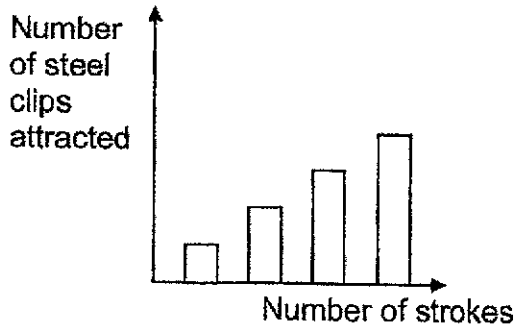
24. Devi stroked an iron nail with a magnet as shown in the diagram. When she placed the iron nail near a container of steel clips, she observed the iron nail attracted some steel clips.



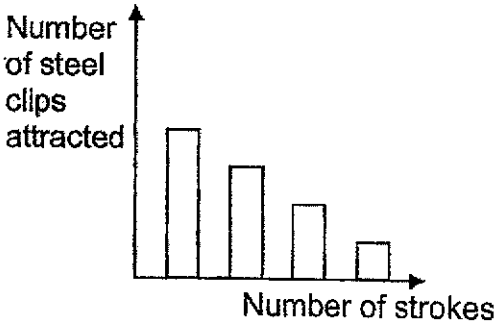
She increased the number of strokes on the iron nail and counted the number of steel clips attracted by the iron nail.

Which graph below best represents the relationship between the number of strokes and the number of steel clips attracted?

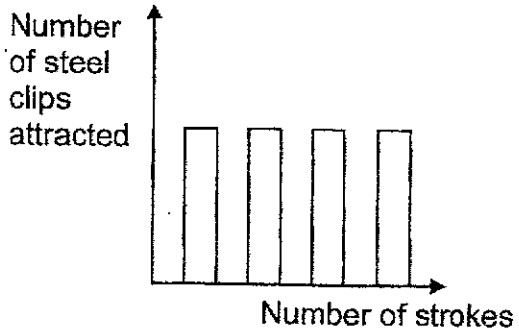
(1)



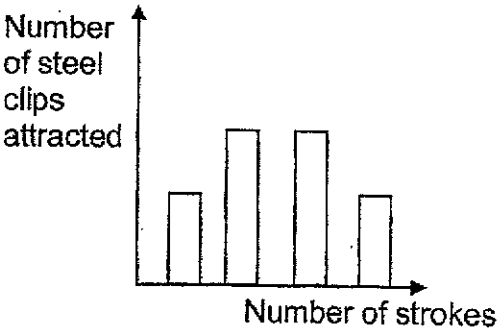
(2)



(3)



(4)



END OF BOOKLET A

PAYA LEBAR METHODIST GIRLS' SCHOOL (PRIMARY)

END-OF-YEAR EXAMINATION 2024

PRIMARY THREE

SCIENCE

BOOKLET B

NAME : _____( )

CLASS : P3 _____

DATE : 22 OCTOBER 2024

TOTAL TIME FOR BOOKLETS A & B: 1 hour and 30 minutes

BOOKLET A	**/ 48**
BOOKLET B	**/ 32**
TOTAL	**/ 80**

Parent's Signature: _____

INSTRUCTIONS TO PUPILS

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

ANSWER ALL QUESTIONS.

SECTION B: 32 Marks

For questions 25 to 34, write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part question.

25. Victor gathered some information on four animals in the table below.

Animals	Food they eat	Number of legs
A	animals	6
B	plants	4
C	plants	6
D	animals	4

(a) Victor grouped the animals according to the food they eat.
Fill in the table below with animals **A**, **B**, **C** and **D**. [2]

Animals as food	Plants as food

Victor then regrouped the animals as shown below.

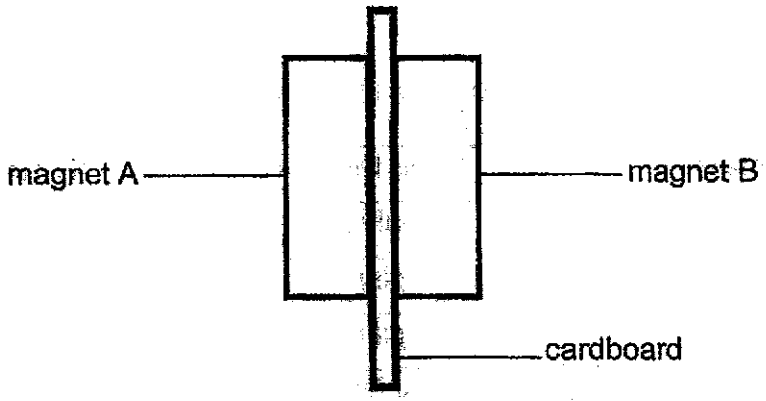
Group 1	Group 2
Animal A Animal C	Animal B Animal D

(b) Based on the above grouping, what characteristic did he use to group the animals? [1]

_____

3

26. The diagram below shows a cardboard between two magnets. When a person moved magnet A, magnet B moved together with it.

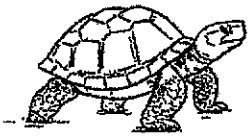
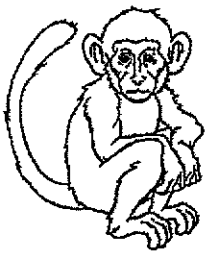
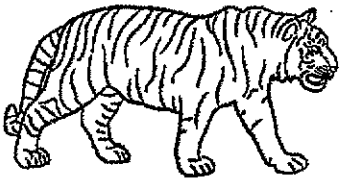


Circle the correct answers. [2]

Both magnets are able to move together because the (***like*** / ***unlike***) poles of the magnets are facing each other so they (***attract*** / ***repel***).

2

27. Study the classification table below.

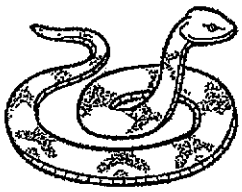
Group P	Group Q
 	 

(a) Write the correct animal groups for groups P and Q. [1]

Group P: _____

Group Q: _____

(b) The picture below shows organism E.



organism E

(i) Which group (P or Q) does organism E belong to? [1]

_____

(ii) Explain your answer in b(i). [1]

_____

_____

3

28. The table below shows the characteristics of three living things, A, B and C.

Living things	Needs Air	Can reproduce	Makes its own food	Moves from place to place
A	✓	✓	✓	
B	✓	✓		✓
C	✓	✓		

(a) Write, A, B or C, in the boxes below that would match the living thing to the characteristics above. [1]

	Living thing	Letter
(i)	 mushroom	
(ii)	 bee	
(iii)	 fern	

(b) Based on the table above, state one difference between A and B. [1]

_____

_____

(c) Beth found out that both the mushroom and fern reproduce in the same way. How do they reproduce? [1]

_____

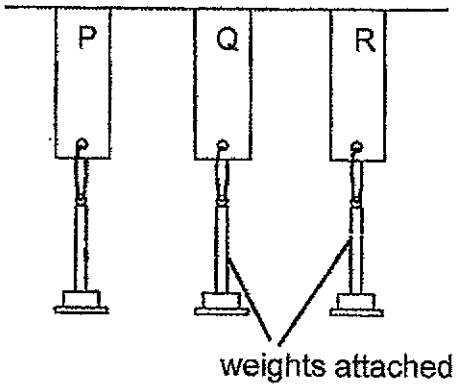
3

29. Tom observed materials P, Q and R. He recorded his observations in the table below. A tick '✓' represents the presence of the property.

Properties	Materials		
	P	Q	R
Flexible	✓		✓
Waterproof	✓	✓	

(a) State a similarity between materials P and R. [1]

Tom carried out an experiment to find out the strength of materials P, Q and R. The materials were of the same size. He added weights to each material, until they tore. He recorded the results in the table as shown.



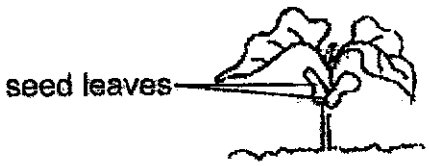
Material	Mass of weights it could hold before it tore (g)
P	300
Q	100
R	800

(b) Based on the results above, arrange the materials, P, Q and R in order of their strength, starting with the weakest. [1]

(c) Tom wanted to make a bag that can carry a packet of flour that weighs 500g. Which material, P, Q or R, should he use? Explain your answer. [2]

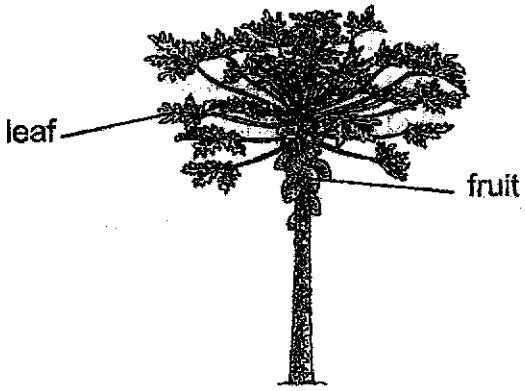
4

30. Lena observed living thing R in the garden as shown.



(a) Based on the picture above, which stage of its life cycle is living thing R at? [1]

Lena also observed plant P as shown.

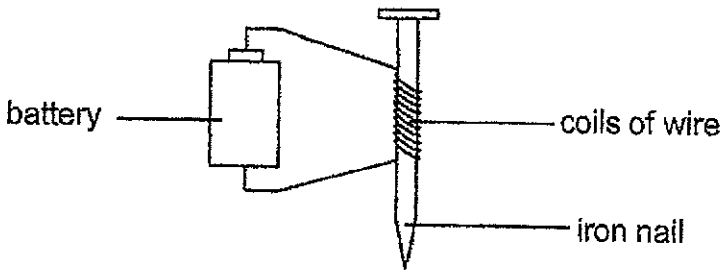


(b) Based on the picture above, which stage of its life cycle is plant P at? [1]

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

3

31. Zainal set up an electromagnet to attract some steel paper clips as shown below.



He repeated the experiment by changing the number of coils around the nail. He recorded the results in the table below.

Number of coils around the iron nail	20	30	40	50
Number of steel paper clips attracted	3	5	?	9

(a) State the number of steel paper clips attracted when the number of coils is 40. [1]

_____

(b) Explain your answer in (a). [1]

_____

_____

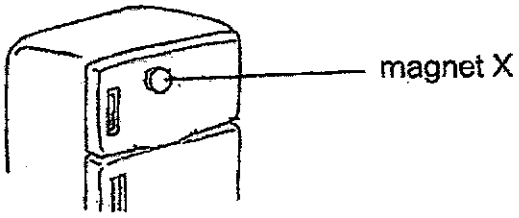
(c) Zainal wants to find out if the number of batteries will affect the strength of the electromagnet.

Tick (✓) the variables that must be kept the same for a fair test. [2]

Variables	**Kept the same (✓)**
Type of nail	
Number of batteries	
Number of coils around the nail	

4

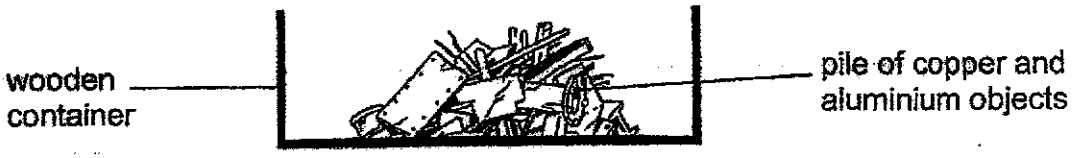
32. Diana put magnet X on the freezer door as shown below.



(a) Name a suitable material that magnet X can be made of. [1]

(b) Explain how magnet X is able to stay on the freezer door. [1]

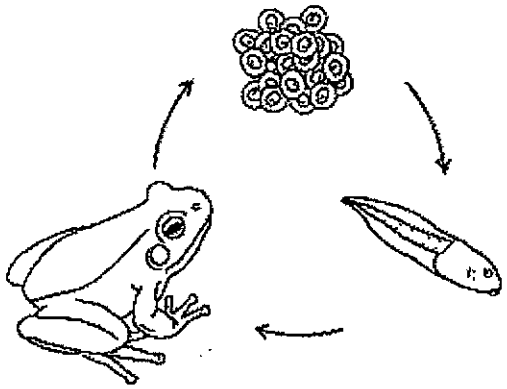
Diana had a wooden box containing copper and aluminium objects.



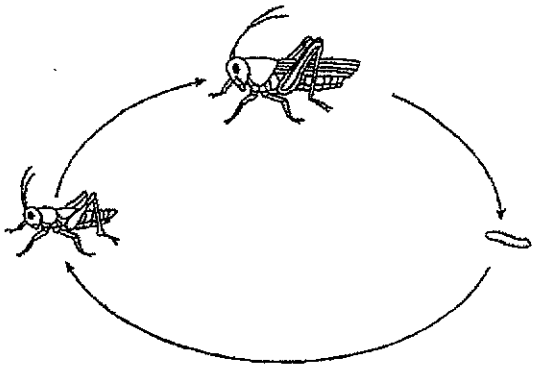
(c) Diana says that she can use magnet X to separate the copper objects from the aluminum objects. Do you agree with her? Explain your answer. [1]

3

33. Study the life cycles of organisms A and B.



organism A



organism B

(a) At which stage of organism A's life cycle does it live both in water and on land? [1]

(b) At which stage of organism B's life cycle does moulting occur? [1]

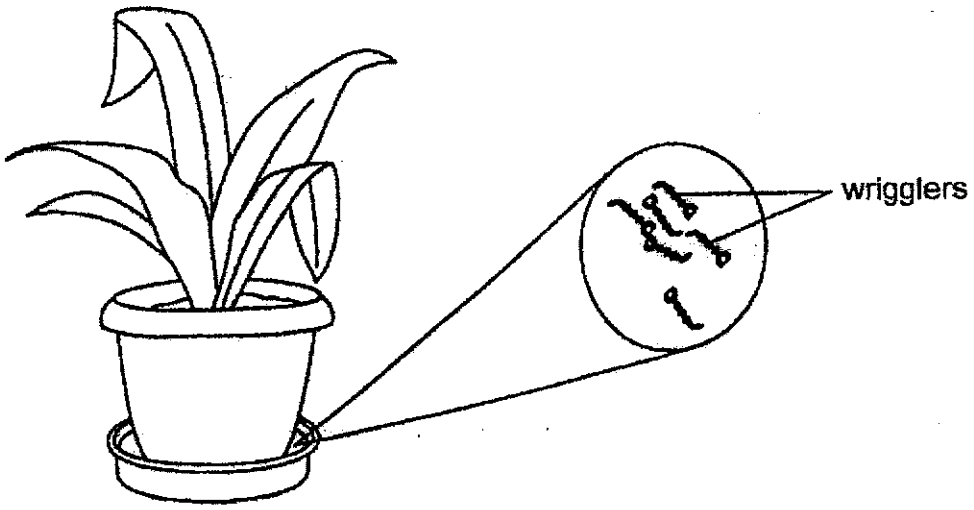
(c) State one similarity between the life cycles of organisms A and B. [1]

(d) State one difference between the life cycles of organisms A and B. [1]

4

34. Mosquitoes are pests that can spread diseases like dengue fever. To prevent dengue fever from spreading, regular checks are conducted.

Mr Chan was fined because there was stagnant water with mosquito wrigglers in a flowerpot plate in his house.



(a) Which stage of the life cycle of mosquito does the wriggler belong to? [1]

(b) Name the stages of the life cycle of mosquito that are the easiest to stop the mosquito from breeding further? [1]

(c) Mr Chan also found some mosquito wrigglers in the pond near his house. Suggest one way on how he could get rid of these wrigglers without harming the water plants and animals in the pond. [1]

END OF BOOKLET B

3

YEAR : 2024
LEVEL : PRIMARY 3
SCHOOL : PAYA LEYBAR MEHTODIST GIRLS' SCHOOL
SUBJECT : SCIENCE
TERM : END OF YEAR EXAMINATION

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

Q25	a) animals as food : A,D plants as food : B,C b) number of legs
Q26	Unlike attract
Q27	a) group P : reptile group Q : Mammal b) (i) P (ii) it has dry scaly skin
Q28	a) (i) C (ii) B (iii) A b) A can make its own food but B cannot c) they reproduce by spores
Q29	a) both are flexible b) Q,P,R c) R. it can hold the most mass before it tore , it can also hold more than 500g .it is the strongest material to hold 500g of flour without breaking.
Q30	a) seedling b) adult plant c) it has fruits
Q31	a) 7 b) when the number of coils around the nail went up by ten , the nail attracted 2 more steel paper clips.

	c) type of nail number of coils around the nail
Q32	a) Iron , steel b) magnet X is able to stay on the freezer door as the freezer door is magnetic so it attracted magnet x c) I do not agree with her as both are made of magnetic materials , both copper and aluminum is not magnetic , so the magnet will not attract either copper or aluminum objects.
Q33	a) adult b) nymph c) both their life cycles have three stages d) the young of the organism A lives in water but the nymph of oraganism B lives on land
Q34	a) larva b) larvae,egg,pupa c) introduce more fish into the pond

END