Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

END-OF-YEAR EXAMINATION 2025
SCIENCE
PRIMARY THREE
BOOKLET A

Name: _____ ( ) **Class: Primary 3**_____

Date: 30 October 2025 **Total Time for Booklets A and B: 1 h 30 min**

Additional Materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO CANDIDATES

1. Write your name index number and class in the spaces provided.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers on the Optical Answer Sheet (OAS) provided. Only the OAS will be marked.

This booklet consists of 18 printed pages including this cover page.

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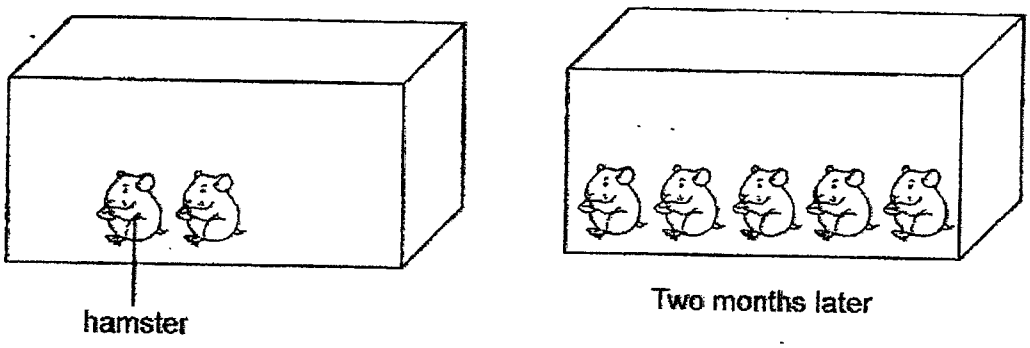
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For each question from 1 to 22, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(44marks)

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1 Brandon bought two hamsters from a pet shop. Two months later, he observed that there were a total of five hamsters.



What characteristic of living things does this show?

(1) Living things grow.

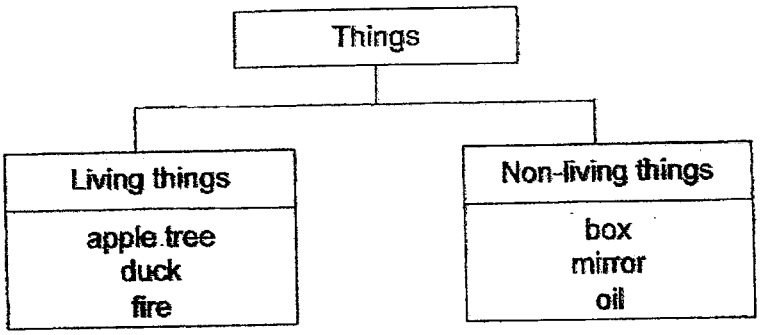
(2) Living things reproduce.

(3) Living things respond to changes.

(4) Living things need air, food and water.

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2 Study the classification table.



Which of the following is wrongly classified?

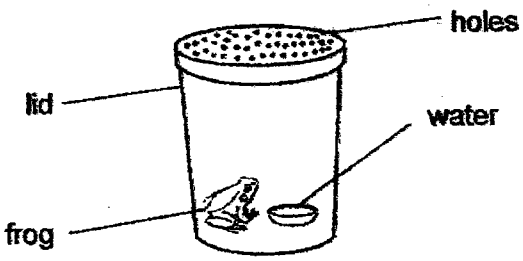
(1) oil

(2) fire

(3) box

(4) duck

3 The diagram below shows a frog in a container. After a few days, the frog died.



Which of the following could be done to prevent the frog from dying?

(1) Use a larger container.

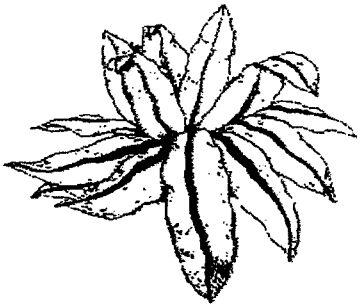
(2) Put flies in the container.

(3) Cover all the holes on the lid.

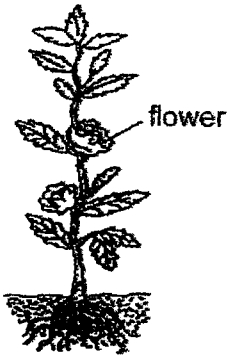
(4) Remove the water from the container.

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4 The diagrams show two plants, X and Y.



Fern X



Plant Y

Which of the following statements is **true** about X and Y?

(1) Only Y needs water to survive.

(2) Both X and Y reproduce by seeds.

(3) Only X can respond to changes around it.

(4) Both X and Y can make food when there is sunlight.

5 Some statements were made about bacteria.

Q: All bacteria are harmful to us.

R: Bacteria can only be seen with a microscope.

S: Bacteria comes in different shapes and sizes.

Which statement(s) is/are correct?

(1) Q only

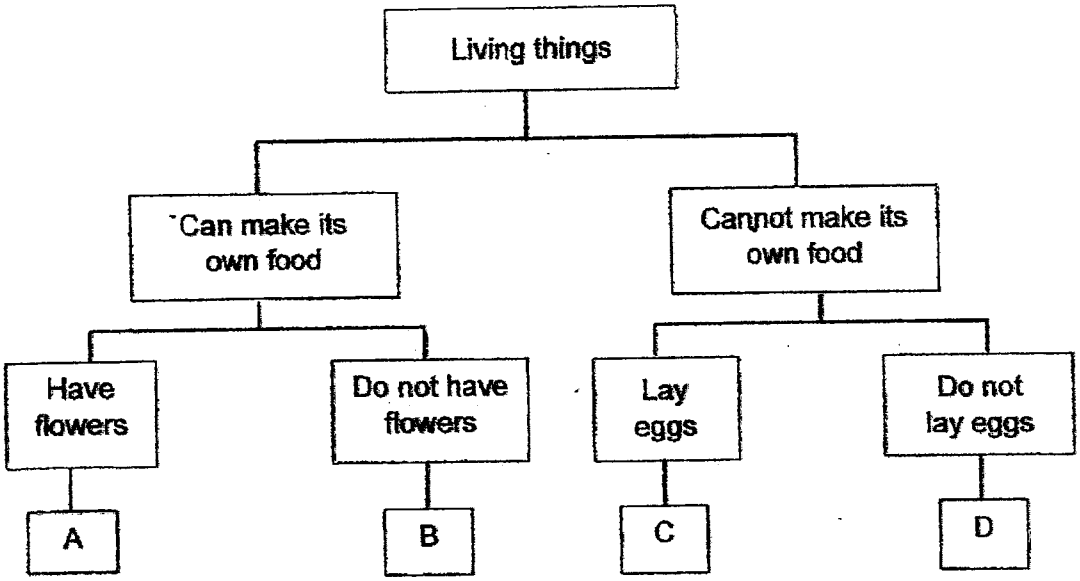
(2) Q and R only

(3) R and S only

(4) Q, R and S

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6 Study the diagram.



Which of the following is correct?

(1) Birds can be placed in Group D.

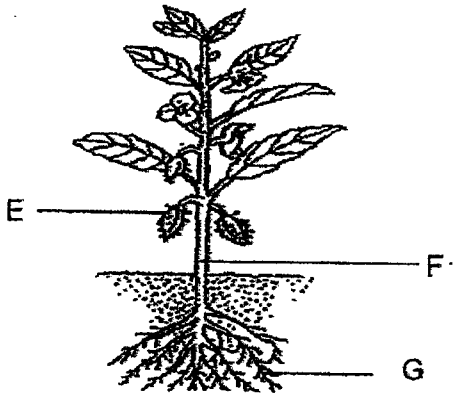
(2) Fungi can be placed in Group B.

(3) Ferns can be placed in Group A.

(4) Amphibians can be placed in Group C.

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7 The picture below shows a plant.

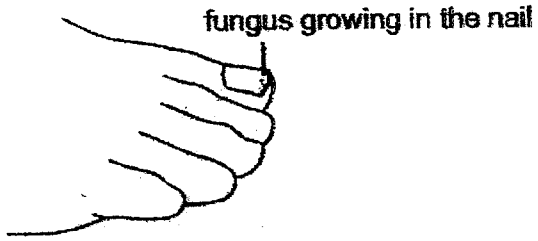


Which row represents parts E, F and G correctly?

	E	F	G
(1)	fruit	leaf	stem
(2)	fruit	stem	root
(3)	flower	fruit	leaf
(4)	flower	root	leaf

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8 Fungus can be found growing in nails.



Jake suggested the following ways to prevent the growth of fungus on the nail.

A Ensure feet is dry after washing it.

B Ensure that nails are cut regularly and cleaned.

C Wear the same unwashed pair of socks every day for a week.

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

(1) A only

(2) B only

(3) A and B only

(4) B and C only

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9 Jacqueline soaked four materials W, X, Y and Z of similar shape and size in a pail of water. After 10 minutes, she took the materials out and weighed them.

The mass of each material is recorded in the table below.

Material	Mass at the start (g)	Mass after 10 minutes (g)
W	200	450
X	200	780
Y	200	600
Z	200	205

Based on the results, which material is most suitable to be made into a raincoat?

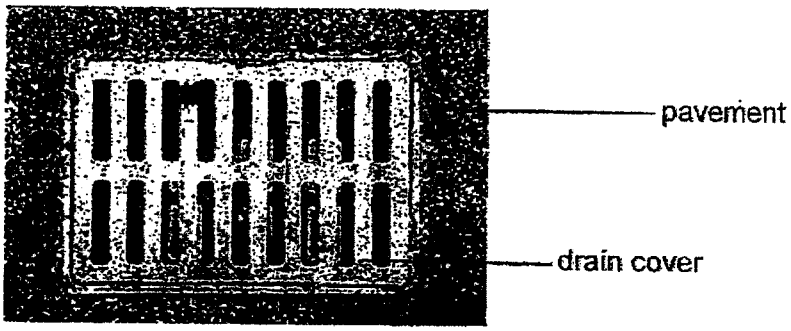
(1) W

(2) X

(3) Y

(4) Z

10 The diagram shows a drain cover on the pavement. It prevents people from falling into the drain.



Metal is used to make the drain cover as it

(1) is strong

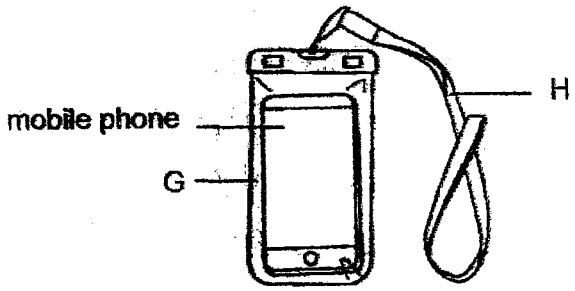
(2) is flexible

(3) does not absorb water

(4) does not allow light to pass through

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11 A mobile phone is placed inside a protective case. This prevents the phone from getting wet during water sports.



What materials are parts G and H of the case likely to be made of?

	G	H
(1)	glass	metal
(2)	plastic	plastic
(3)	glass	plastic
(4)	plastic	paper

12 How is a young plant similar to an adult plant?

A A young plant can make its own food.

B A young plant is ready to produce flowers.

C A young plant takes in water through the roots.

(1) A only

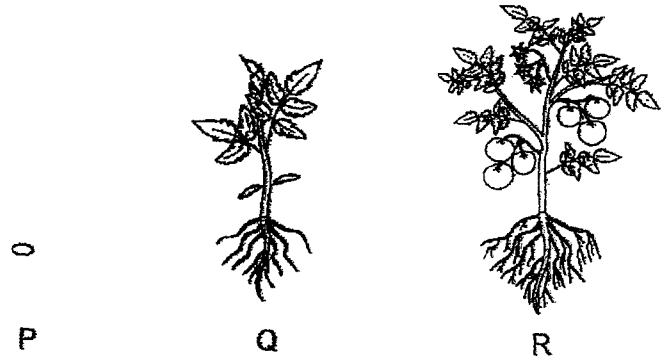
(2) A and C only

(3) B and C only

(4) A, B and C

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13 The diagrams show some stages of growth (P, Q and R) in the life cycle of a plant.



P Q R

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

A At stage Q, it is classified as a non-flowering plant.

B At stage P, the roots grow first to help the plant absorb water.

C At stage R, the plant need not make its own food as there are fruits.

(1) A only

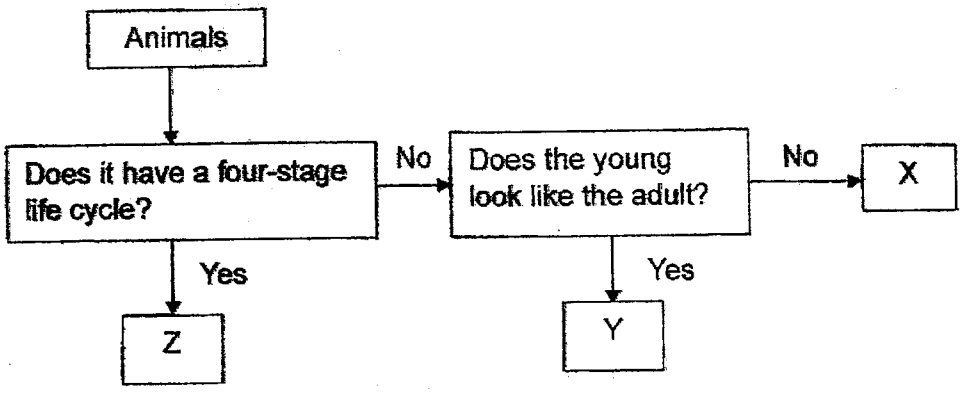
(2) B only

(3) A and B only

(4) B and C only

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14 Study the flow chart.



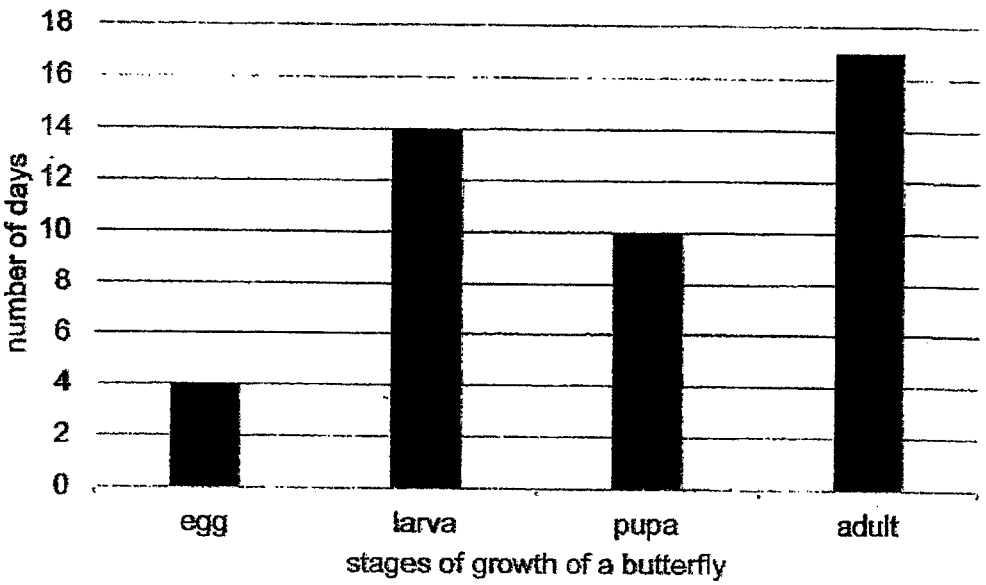
Which row represents animals X, Y and Z correctly?

	X	Y	Z
(1)	frog	cockroach	butterfly
(2)	cockroach	butterfly	chicken
(3)	beetle	chicken	frog
(4)	beetle	frog	chicken

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Use the information below to answer Questions 15 and 16.

Joyce observed the number of days the butterfly was found at each stage of its life cycle across 45 days. She recorded the information in the bar graph below.



15 How many days did the butterfly take to develop into an adult after the egg was hatched?

(1) 24

(2) 28

(3) 41

(4) 45

16 At which stage is the butterfly harmful to a farmers' plants?

(1) Egg

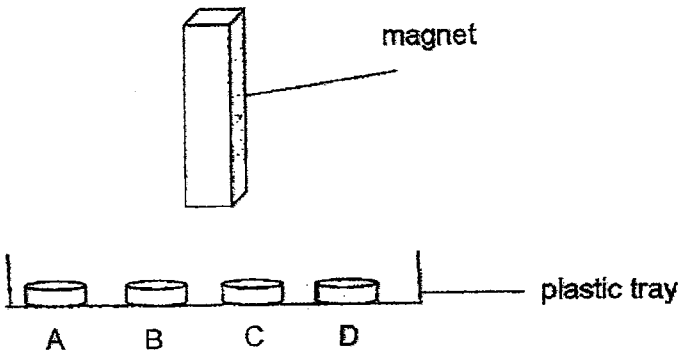
(2) Larva

(3) Pupa

(4) Adult

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17 Judy has four discs A, B, C and D made of different materials. She tried to pick up each disc using a magnet.



She observed that only disc B can be picked up by the magnet. What material is disc B likely to be made up of?

(1) iron

(2) wood

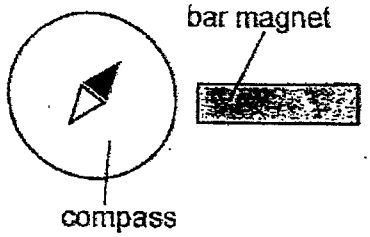
(3) ceramic

(4) aluminium

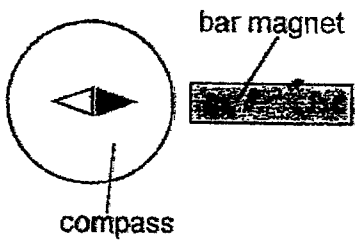
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18 A bar magnet was placed near a compass. Which of the following diagram shows the correct observation?

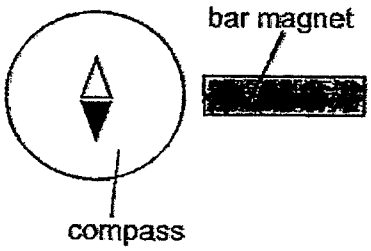
(1)



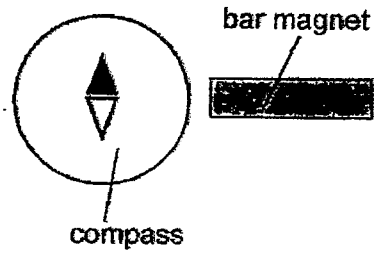
(2)



(3)

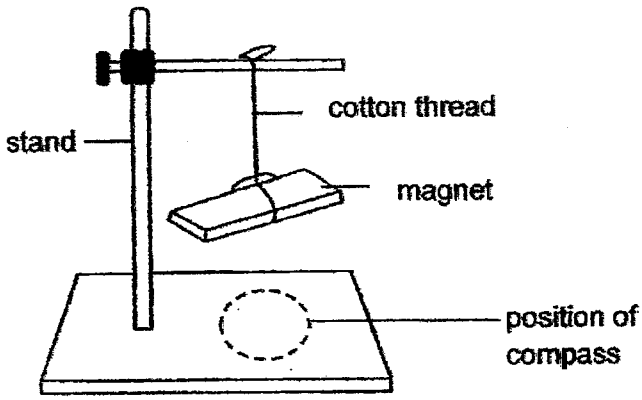


(4)



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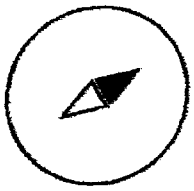
19 Daniel spun a magnet many times and it would end up pointing in a particular direction as shown below.



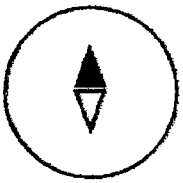
Next, he placed a compass under the magnet as shown above.

Which is the correct position of the compass needle?

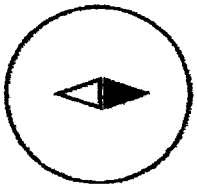
(1)



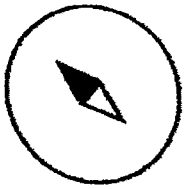
(2)



(3)

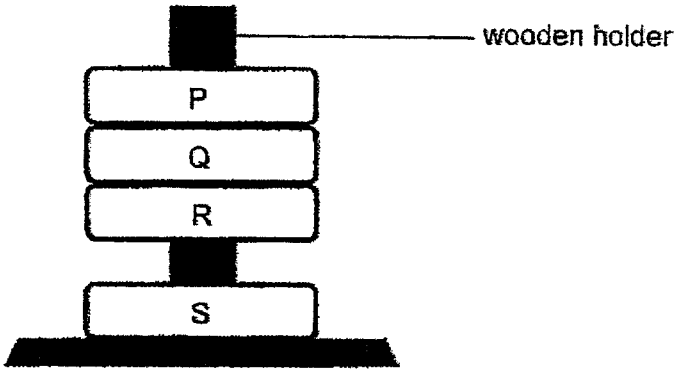


(4)



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20 Four rings, P, Q, R and S, were placed one at a time on a wooden holder. Two of the rings are magnets and the other two are steel rings.



Based on the observation above, which two are the steel rings?

(1) P and Q

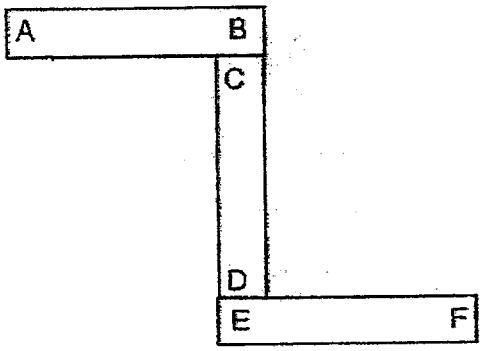
(2) P and S

(3) Q and R

(4) R and S

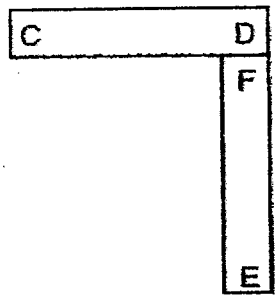
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21 Three bar magnets with their poles labelled A to F can be arranged as shown below.

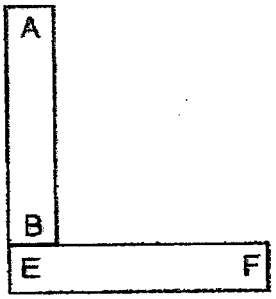


Which of the arrangements is correct?

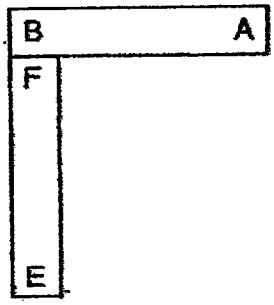
(1)



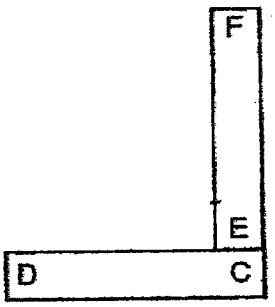
(2)



(3)

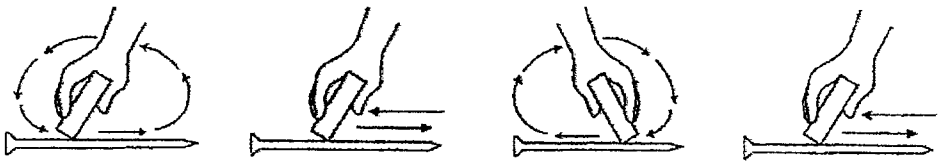


(4)



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22 A magnet was used to stroke four similar iron nails, A, B, C and D. The direction that the iron nail was stroked and the number of strokes used are shown below.



Nail A
80 times

Nail B
50 times

Nail C
50 times

Nail D
80 times

Which nail, A, B, C or D will have the strongest pull?

(1) A

(2) B

(3) C

(4) D

(Go on to Booklet B)

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Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

END-OF-YEAR EXAMINATION 2025
SCIENCE
PRIMARY THREE
BOOKLET B

Name: _____ ( ) **Class: Primary 3** ____

Date: 30 October 2025 **Total Time for Booklets A and B: 1 h 30 min**

_____
Parent's/ Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. Write your name, index number and class in the spaces provided.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

BOOKLET	MAX MARKS	MARKS OBTAINED
A	44	
B	36	
Total	80	

This booklet consists of 11 printed pages including this cover page.

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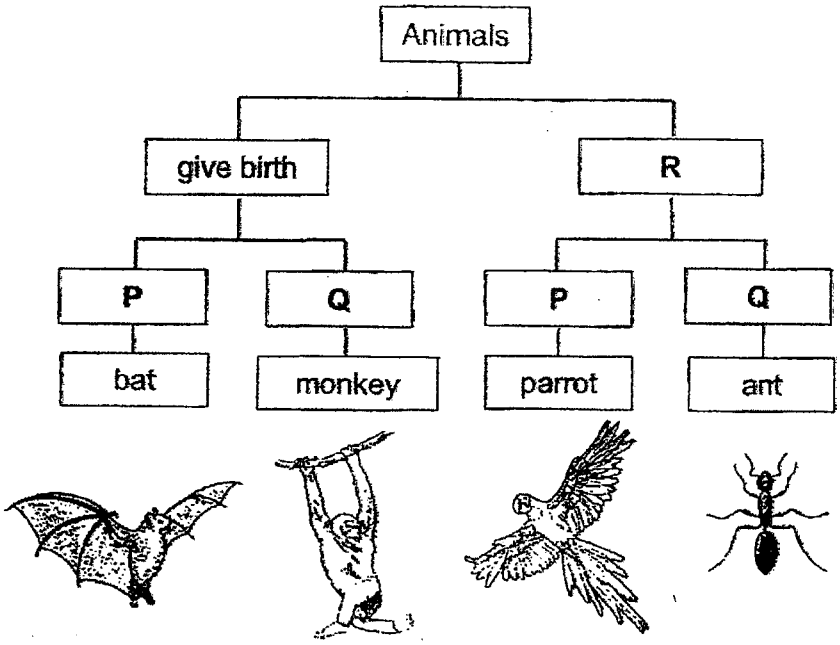
For questions 23 to 32, write your answers in this booklet.

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

(36 marks)

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23 Study the diagram. P, Q and R represent some characteristics of animals.

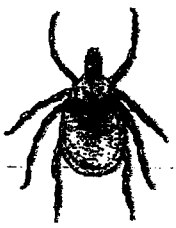


(a) Describe characteristics P and R. [2]

P: _____

R: _____

(b) Megan observed animal H and classified it as an insect.



Animal H

Do you agree with Megan's classification? Explain why. [2]

_____

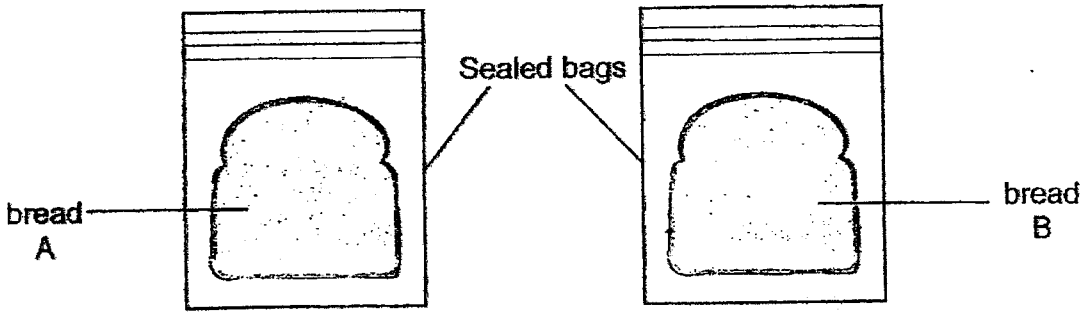
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Score	/ 4

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24 Keith conducted an experiment using two similar slices of bread. He sprinkled some water on bread A but not on bread B. Both slices were placed in separate sealed bags and kept at the same location.



(a) Based on the information above, tick (✓) the conditions that are **changed** or **kept the same** between bag A and bag B. [2]

Conditions	Changed	Kept the same
Size of bread		
Type of bread		
Amount of water on the bread		
Location of bag		

(b) After five days, Keith observed that mould had grown on bread A but not on bread B. Explain why. [2]

_____

_____

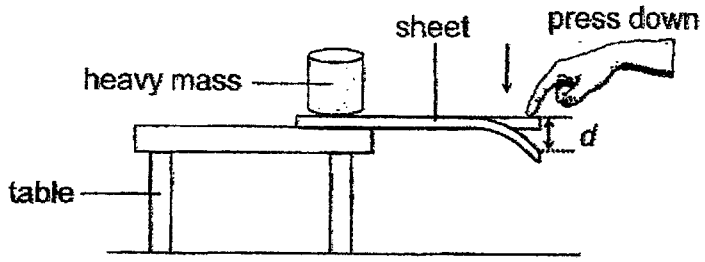
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Score	/4

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25 Sarah wanted to test the flexibility of three sheets E, F and G, which are made of different materials.

Sheet E is placed on the side of a table with a heavy mass placed on it. Sarah pressed the sheet down slowly and measured the maximum distance the sheet bent, *d* cm, just before it broke, as shown below. The experiment was repeated using sheets F and G.



The results in the table show the distance bent, *d* cm, just before each sheet broke.

Sheet	Distance bent, *d* (cm)
E	1
F	10
G	4

(a) State what flexibility is. [1]

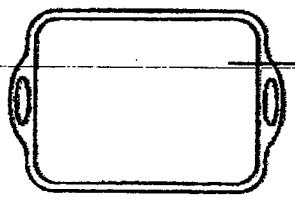
_____

(b) Arrange the materials, E, F and G according to their flexibility below. Begin with the least flexible material. [1]

_____ , _____ , _____

least flexible most flexible

(c) Based on the results, which sheet is most suitable for making a food tray? Explain why. [2]



_____

_____

(Go on to the next page)

Score	/ 4

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26 Study the table.

Property	Material			
	J	K	L	M
Is it strong?	×	✓	✓	✓
Is it flexible?	×	✓	×	×
Does it absorb water?	✓	×	×	✓

Key
✓: yes
×: no



Dylan's mother told him to wear a raincoat when it is raining to keep himself from getting wet.

(a) Which material, J, K, L or M is most suitable to make part X of the raincoat? Explain your answer. [2]

_____

_____

_____

(b) Name a material that is most suitable to make part X. [1]

_____

(Go on to the next page)

Score	/3

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27 Christy wanted to find out about how much food mealworms feed on. She placed one mealworm into each of the four separate containers. Each container has 30 units of food.

She recorded the amount of food left in each container at the end of the day for three days.

Mealworm	Amount of food left at the end of the day (units)		
	Day 1	Day 2	Day 3
A	26	26	26
B	25	19	15
C	26	20	17
D	25	18	11

(a) Based on the information given, which mealworm had most likely developed into the next stage at the end of day 3? Explain why. [2]

_____

_____

_____

(b) Christy said that the egg stage of the mealworm comes first. Do you agree with her? Explain why. [2]

_____

_____

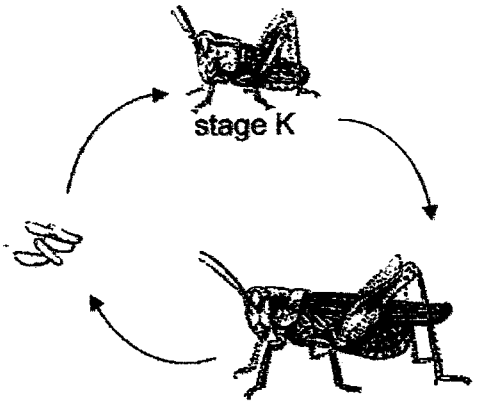
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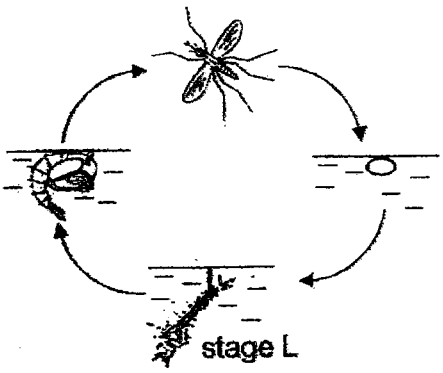
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28 Study the diagrams below carefully.



life cycle of a grasshopper



life cycle of a mosquito

(a) Based on the diagrams, state two differences between stage K and stage L. [2]

(1): _____

_____

_____

(2): _____

_____

_____

(b) Suggest a way to reduce mosquito breeding at stage L and state how it works. [2]

_____

_____

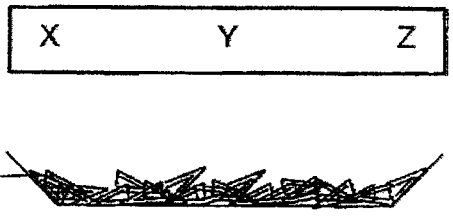
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Score	/4

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29 Alice placed a bar magnet over some steel paper clips. She recorded the number of steel paper clips attracted to the different parts of the bar magnet, X, Y and Z.



The results are shown in the graph below.



(a) Label the bar graph with the correct parts X, Y and Z. [1]

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

_____

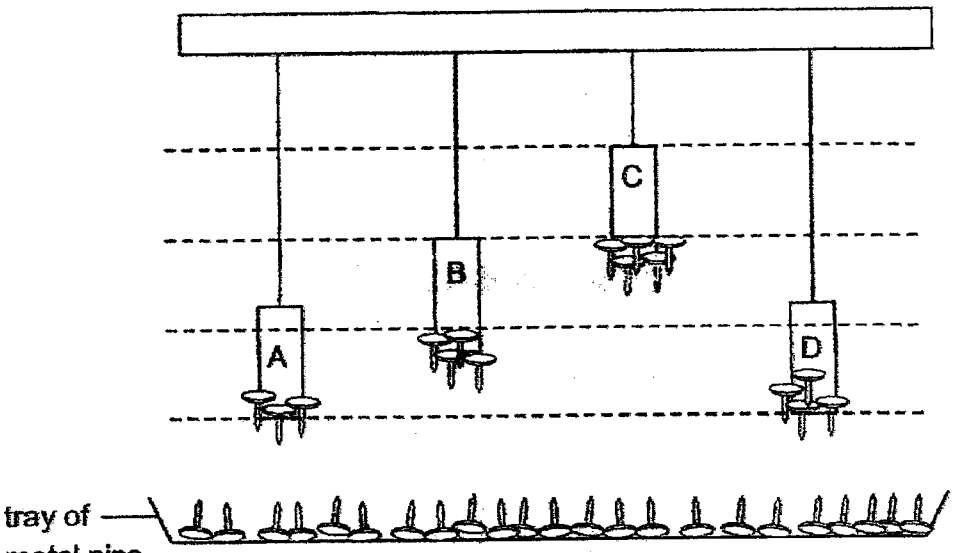
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Score 2

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Alice conducted an experiment to find out which bar magnet is the strongest. She hung four magnets of equal lengths, A, B, C and D at different distances above a tray of metal pins. The results are shown below.



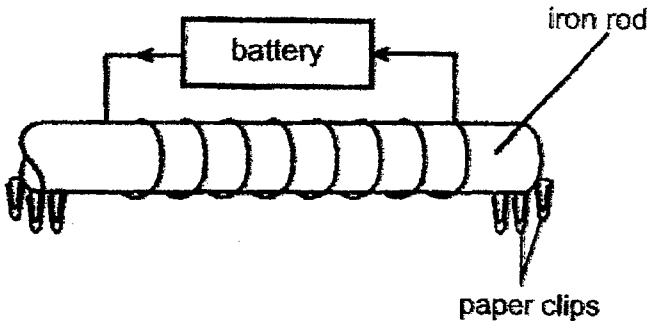
(c) Alice concluded that magnet C is the strongest magnet. Do you agree with her? Explain your answer. [2]

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Score	/2

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30 Ralph made an electromagnet.



He conducted the experiment and recorded the results in the table below.

Set-up	Number of turns around the iron rod	Number of paper clips attracted
A	8	6
B	16	*X*
C	24	10

(a) What is the aim of the experiment? [1]

_____

_____

(b) Based on his results, what is the likely value of *X*? [1]

_____

(c) State the relationship between the number of turns around the iron rod and the strength of the electromagnet. [1]

_____

_____

(d) Without changing the number of turns around the iron rod, suggest another way to increase the number of paper clips attracted by the electromagnet. [1]

_____

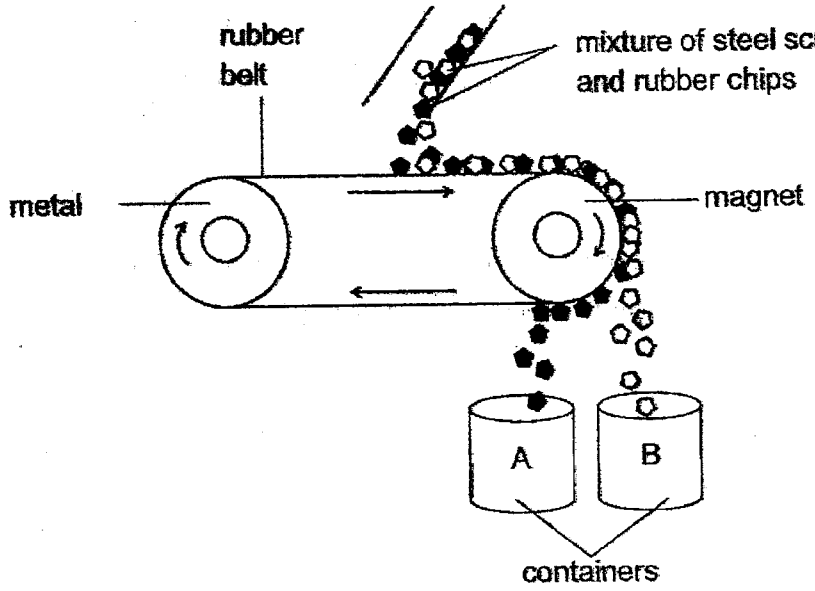
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Score	/ 4

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31 The diagram below shows a way to separate steel scraps and rubber chips. A mixture of steel scraps and rubber chips was poured onto the moving rubber belt and collected in containers A and B.



(a) State which containers, A or B, will collect the steel scraps and rubber chips. [1]

Steel scraps: _____

Rubber chips: _____

(b) Explain how the steel scraps and rubber chips are separated into containers A and B. [2]

_____

_____

_____

(c) The magnet was replaced with a much stronger magnet. Predict and explain how the collection of steel scraps and rubber chips will be affected. [2]

_____

_____

_____

End of Paper

Score	/ 5

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2025 P3 Science End-of-Year Exam Suggested Answers

Name:_____( ) Class: _____
Date: _____

SECTION A:

Qn	Ans	Qn	Ans	Qn	Ans	Qn	Ans	Qn	Ans
1	**2**	6	**4**	11	**2**	16	**2**	21	**2**
2	**2**	7	**2**	12	**2**	17	**1**	22	**1**
3	**2**	8	**3**	13	**2**	18	**2**	23	
4	**4**	9	**4**	14	**1**	19	**1**	24	
5	**3**	10	**1**	15	**1**	20	**1**	25	

Booklet B:

<table>
<tr><th>Qn</th><th>Acceptable Answer</th></tr>
<tr><td>23a</td><td>Group P: Have wings

Group R: Do not give birth</td></tr>
<tr><td>23b</td><td>No.

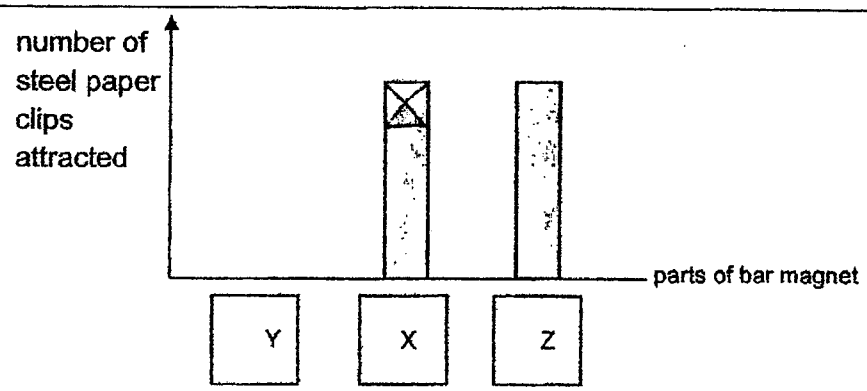
Animal H has eight legs but insects have six legs.</td></tr>
<tr><td>24a</td><td>
<table>
<tr><th>Conditions</th><th>Changed</th><th>Kept the same</th></tr>
<tr><td>Size of bread</td><td></td><td>✓</td></tr>
<tr><td>Type of bread</td><td></td><td>✓</td></tr>
<tr><td>Amount of water on the bread</td><td>✓</td><td></td></tr>
<tr><td>Location</td><td></td><td>✓</td></tr>
</table>
</td></tr>
<tr><td>24b</td><td>Water is added to bread A

Water is necessary for the mould to grow</td></tr>
</table>

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Qn	Acceptable Answer
25a	The ability to bend ___without___ breaking
25b	E, G, F
25c	E. Distance bent, *d*, is the ___least___ , hence it is the least flexible, (so the food tray will be able to hold food items on it).
26a	Material K. It needs to be ___water proof___, strong and flexible.
26b	Plastic OR rubber
27a	Mealworm A. The amount of food left at the end of the day remains the ___same___. Pupa does ___not eat/feed___, (hence, amount of food does not decrease)
27b	No, as there is no first or last stage in a life cycle. The stages in a life cycle are ___rebeated___.
28a	Stage K of grasshopper looks like its adult while Stage L of mosquito does not look like its adult. Stage K of grasshopper lives on ___land___ while Stage L of mosquito lives in the ___water___.

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Qn	Acceptable Answer
28b	Spray a layer of oil on the water. This stops the breathing tube of stage L and it cannot breathe.
28c	~~They are in the water and less likely to move too much unlike the adult.~~
29a	
29b	A magnet's attraction is the strongest at its two poles.
29c	Yes, magnet Y/C is the furthest from the tray of pins and can still attract the most number of pins.
30a	To find out how the number of turns around the iron rod affects the number of paper clips attracted.
30b	7 - 9
30c	The greater the number of coils around the iron bar, the stronger the electromagnet.

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Qn	Acceptable Answer
30d	Adding more batteries to the set up.
31a	Container A Container B
31b	The rubber chips are non- magnetic materials so it will not be attracted to the magnet and falls in B The steel scraps are magnetic materials so it will be attracted to the magnet and will not fall into B but into A instead.
31c	Less steel scraps will be collected They will be attracted to the magnet for a longer time and drop later.

END

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