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Red Swastika School
2021 P3 Science Milestone Check (2)
Fungi and Bacteria & Materials

20

Name:_____( ) Parent's Signature: _____

Class : P3 _____ Date: _____

Section A: Multiple-Choice Questions (7 x 2 = 14 marks)

Choose the most suitable answer and write its number in the brackets provided.

1. Mdm Lim bought an object with the following properties.

- It is strong.
- It is waterproof.
- It can float on water.

Which of the following objects could Mdm Lim have bought?
(1) metal fork
(2) cotton t-shirt
(3) ceramic mug
(4) plastic swimming board ( )

2. Lily made the following statements about bacteria.

A: Bacteria are microorganisms.
B: Bacteria make their own food.
C: Bacteria are found everywhere.
D: Bacteria can be useful or harmful to humans.

Which of the following statements are true of bacteria?
(1) A and B only
(2) A, B and C only
(3) A, C and D only
(4) All of the above ( )

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3. Study the table below.

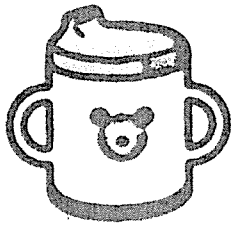
Living things	Does it make its own food?	How does it reproduce?	Can it respond to changes around it?
A	Yes	By spores	Yes
B	No	By spores	Yes
C	No	By laying eggs	Yes

Which of the following best represents A, B and C?

	A	B	C
(1)	mosquito	mould	mango tree
(2)	mushroom	fern	mould
(3)	mango tree	mosquito	mushroom
(4)	fern	mould	mosquito

( )

4. Plastic is a suitable material to make a children's cup as seen below.



Which of the following characteristics does not explain why plastic is used to make the cup?

(1) It is light.

(2) It is flexible.

(3) It does not break easily.

(4) It does not get hot easily. ( )

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5. Study the classification table below.

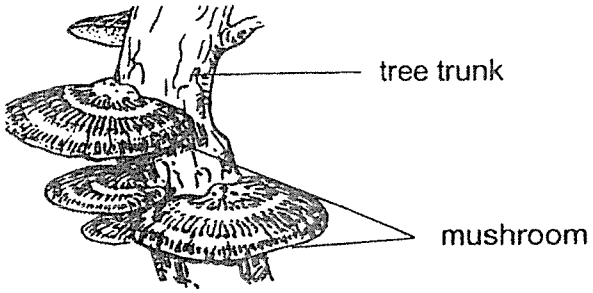
Group X	Group Y
newspaper notebook	key paper clip

Based on the materials they are made from, which of the following can be placed into group X and group Y?

	Group X	Group Y
(1)	dictionary	t-shirt
(2)	t-shirt	nail
(3)	nail	dictionary
(4)	dictionary	nail

( )

6. The picture below shows mushrooms growing on a tree trunk.



Which of the following statements about mushrooms is true?

(1) Mushrooms can make their own food.

(2) Mushrooms do not need air, food and water.

(3) Mushrooms take their nutrients from the tree trunk.

(4) Mushrooms move from one place to another to find food. ( )

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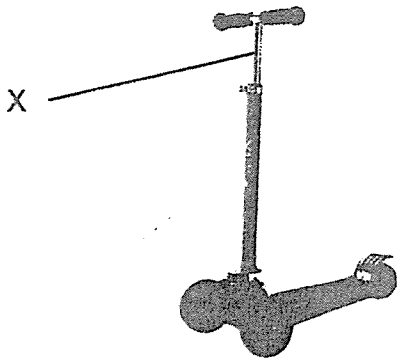
7. The diagram shows a skate scooter that children ride.



The table below shows the properties of four different materials, A, B, C and D.

Properties	Materials			
	A	B	C	D
Is it strong?	yes	yes	no	no
Is it waterproof?	yes	yes	no	yes
Is it flexible?	no	yes	yes	yes

Which one of the following materials is the most suitable in making part X of the skate scooter?

(1) A

(2) B

(3) C

(4) D ( )

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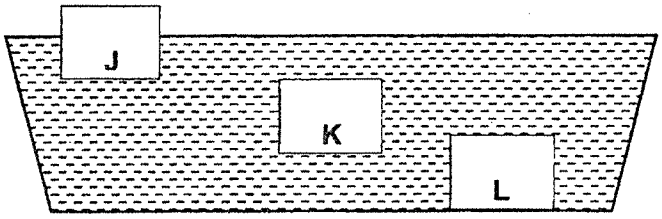
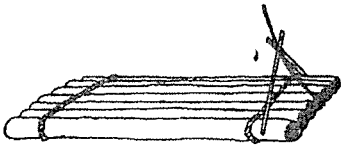
Section B: Open-ended Questions (2 Questions – 6 marks)

8 Tom wants to build a simple raft. He conducts an experiment to find out which material J, K or L is most suitable to make a raft. He places the three materials into a container of water. The result is shown in the diagram below.

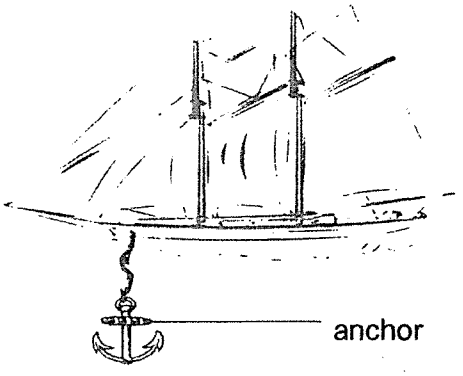


(a) Which material, **J**, **K** or **L**, is most suitable to build the raft to cross a river as shown below? Give a reason for your choice.(1m)



_____

_____



(b) An anchor is used to prevent a ship from drifting away in the sea. Which material, **J**, **K** or **L**, is most suitable for making an anchor? Give a reason for your choice.(2m)

_____

_____

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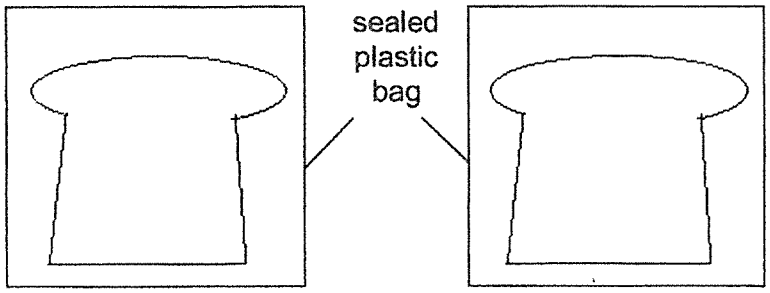
9. Sherman left two similar slices of bread, G and H, in different conditions as shown below.

	Bread G	Bread H
Is the bread toasted?	No	Yes
Is water added?	Yes	No

The bread was kept in sealed plastic bags in the Science room as shown.



He recorded his observations in the table below.

Day	Bread G	Bread H
1	No change	No change
3	No change	No change
5	A few dark spots	No change
7	Many dark spots	A few dark spots

(a) Name the dark spots that Sherman observed growing on the bread. (1m)

_____

(b) How do the dark spots reproduce? (1m)

_____

(c) The experiment was repeated by placing a slice of bread in the refrigerator that day. Some water had been added to the bread before placing it in the refrigerator. Sherman noticed that there were no dark spots observed on the bread on Day 7. Explain why. (1m)

_____

_____

END OF PAPER

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Red Swastika School
2021 P3 Science Milestone Check (3)
Human Digestive System, Magnets & Plant Parts

20

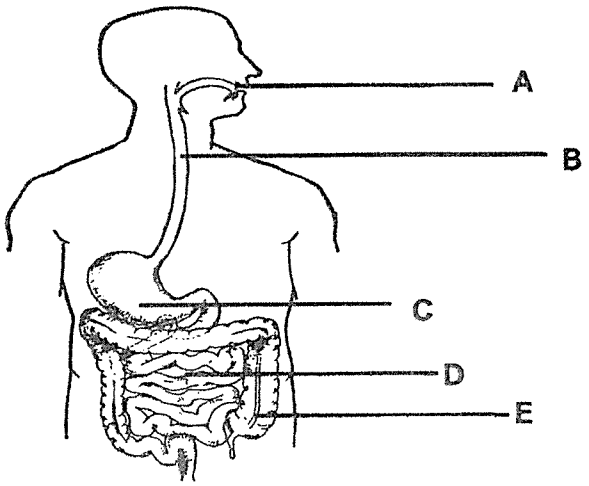
Name: _____ ( ) Parent's Signature: _____

Class : P3 _____ Date: _____

Section A: Multiple-Choice Questions (7 x 2 = 14 marks)

Choose the most suitable answer and write its number in the brackets provided.

1. Look at the diagram below.



Digestion occurs at the parts labelled _____.

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

2. Which of the following statements is true about the large intestine?

(1) Water is absorbed from the undigested food.
(2) Food will be broken down into smaller pieces.
(3) More digestive juices are combined with the food.
(4) Blood carries the digested food to different parts of the body. ( )

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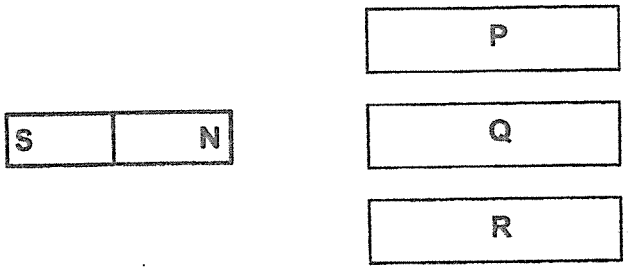
3. Aini brought three objects P, Q and R near a magnet as shown in the diagram below.



She observed the objects closely and found that they all reacted differently. She noted down the observations in her notebook.

Aini's Observations

Object P: It was pulled towards the magnet.

Object Q: It did not move at all. It stayed at the same spot where it was placed.

Object R: It was pushed away each time the magnet was brought close to it.

Which of the following **best** describes objects P, Q and R?

	P	Q	R
(1)	iron nail	magnet	copper coin
(2)	magnet	towel	wooden ruler
(3)	aluminium foil	steel spoon	magnet
(4)	steel spoon	plastic ruler	magnet

( )

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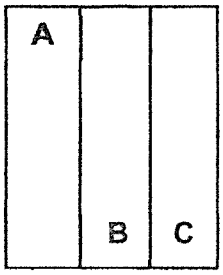
4. Three bar magnets were arranged side by side. All the magnets attracted each other as shown in the diagram below.

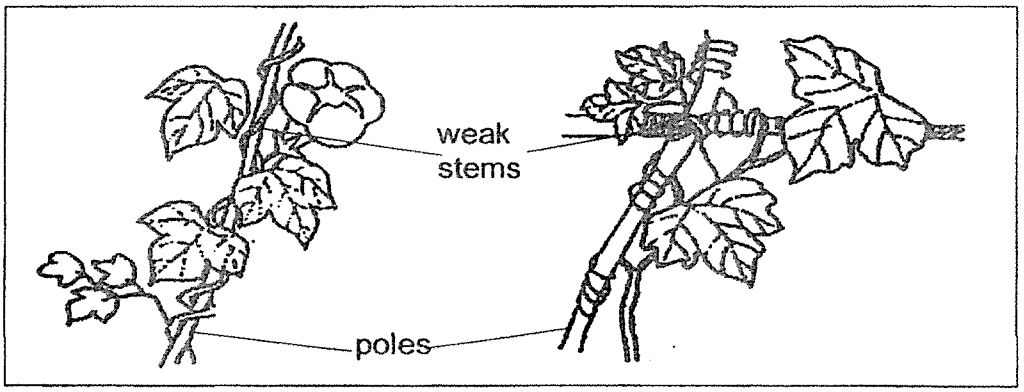


What are the possible poles for **A**, **B** and **C**?

	A	B	C
(1)	North	South	North
(2)	North	North	South
(3)	South	North	North
(4)	South	North	South

( )

5. The diagram below shows two plants with weak stems.



The stems climb up the poles to get enough _____.

(1) food
(2) water
(3) minerals
(4) sunlight ( )

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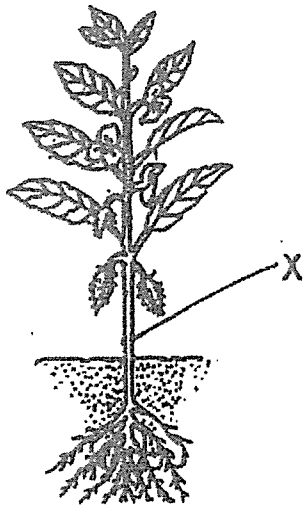
6. The diagram below shows a plant.



Which of the following statements is/are function(s) of part X?

A: It holds the plant firmly to the ground.

B: It supports the plant in an upright position.

C: It allows the plant to exchange gases with the surroundings.

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

2

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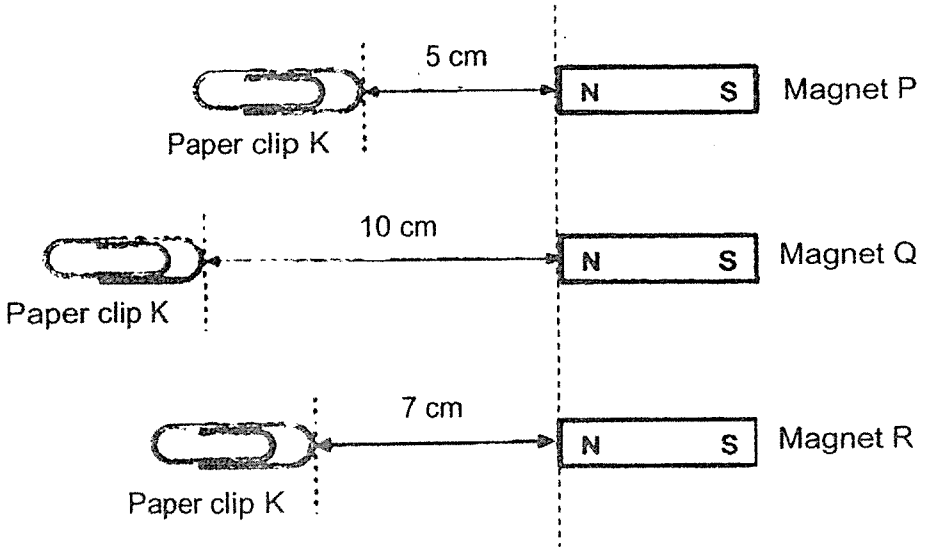
7. Ron used three magnets, **P**, **Q** and **R** to attract paper clip **K**.

The diagram shows how near each paper clip had to be placed before it could be attracted to the magnet.



Which of the following statements is true?

(1) Magnet **Q** has the weakest magnetic strength

(2) Magnet **R** has the strongest magnetic strength.

(3) Magnet **P** has a weaker magnetic strength than Magnet **Q**.

(4) Magnet **P** has a stronger magnetic strength than Magnet **R**. ( )

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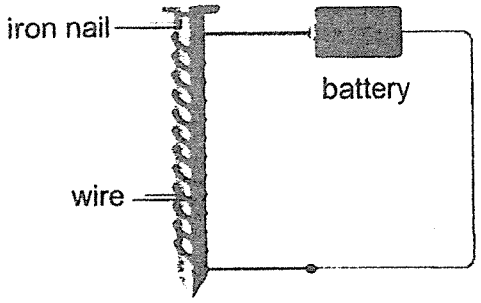
Section B: Open-ended Questions (2 Questions – 6 marks)

8. Timothy magnetised an iron nail as shown below.



He recorded the number of paper clips that were attracted to the iron nail when he changed the number of coils around the iron nail in the table shown below.

Number of coils	Number of paper clips
16	3
20	5
24	?
28	10

(a) Based on the table above, predict the number of paper clips attracted by the iron nail when there were 24 coils around the iron nail.(1m)

_____

(b) State **two** variables that should be kept the same for the experiment to be a fair test.(2m)

Variable (1):

_____

_____

Variable (2):

_____

_____

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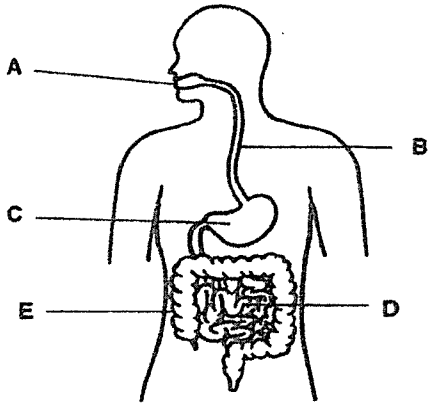
9. The diagram below shows the human digestive system.



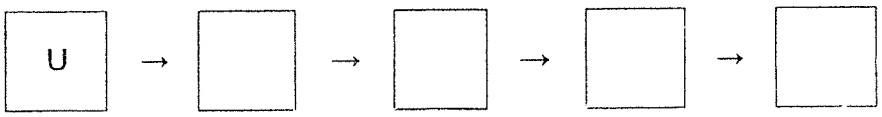
(a) Based on the diagram above, write the correct letter (**A**, **B**, **C**, **D** or **E**) in the table below to show the part that is being described. (2m)

	Description of Part	Part
(i)	This part is where digestion is completed.	
(ii)	This part has a similar function to a knife cutting a fruit into smaller pieces.	

(b) Study the table below.

Letter	Part
Q	stomach
R	large intestine
S	small intestine
T	gullet
U	mouth

Trace the path taken by a piece of bread as it passes through the digestive system by writing the letters of the parts in the boxes below. The first one has been done for you.(1m)



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END OF PAPER

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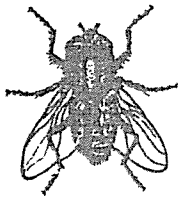
Red Swastika School
Primary 3 Science 2021
Revision Paper 3

Name: _____ ( )

Class : P3 _____ Date: _____

For Questions 1 to 15, choose the most suitable answer and shade its number in the OAS provided.

1. Study the table below.

Living things	Non-living things
 frog	 keys
 housefly	 hibiscus

Which one of the above was classified wrongly?

(1) frog
(2) keys
(3) housefly
(4) hibiscus

( )

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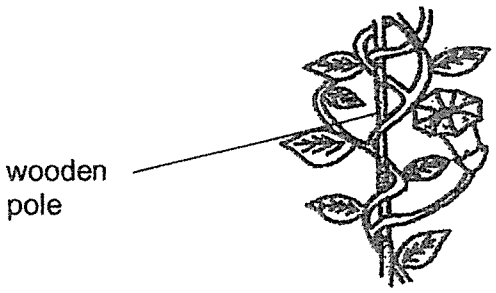
2. Which of the following has hair as its outer body covering?

(1) insect
(2) reptile
(3) mammal
(4) amphibian ( )

3. Study the diagram of plant X shown below.



Plant X needs a wooden pole for support because it _____.

A: has a weak stem
B: needs to absorb more water
C: needs to reach up for more sunlight

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

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4. The table below shows the characteristics of four animals.

Characteristics	has six legs	has feathers	feeds its young with milk
bird	×	✓	×
fish	✓	×	×
insect	✓	×	✓
mammal	×	✓	✓

Which one of the following animals in the table is correctly described?

(1) bird
(2) fish
(3) insect
(4) mammal ( )

5. Which of the following organs is not part of the human respiratory system?

(1) nose
(2) lungs
(3) heart
(4) windpipe ( )

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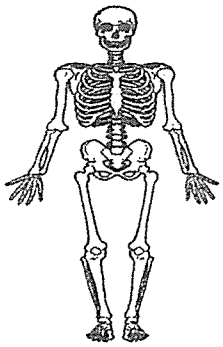
6. The diagram below shows one of the human body systems.



Some students shared statements about this human body system.

Abu:	It helps to give us shape.
Ben:	It helps to support our body.
Caela:	It helps to protect the important organs in our body.
David:	It helps to transport food and water to all parts of our body.

Which student made an incorrect statement?

(1) Abu

(2) Ben

(3) Caela

(4) David ( )

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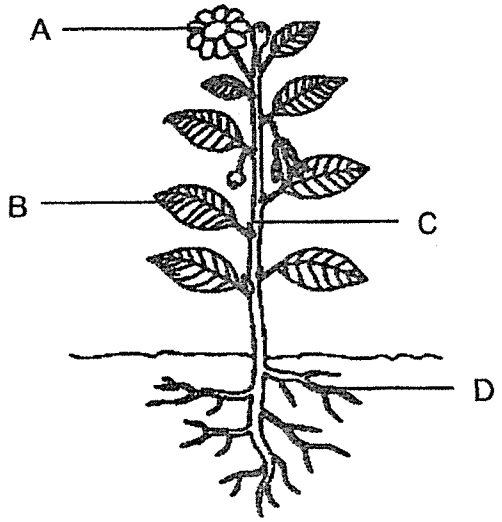
7. The diagram below shows a plant.

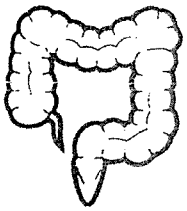


Which part of the plant, A, B, C or D, helps to hold the plant firmly to the ground?

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

( )

8. The diagram below shows one of the organs in the human digestive system.



Which of the following information about the organ is correct?

	Organ	Digestion of food takes place here	Water is absorbed
(1)	Small Intestine	Yes	No
(2)	Small Intestine	No	Yes
(3)	Large Intestine	No	Yes
(4)	Large Intestine	Yes	No

( )

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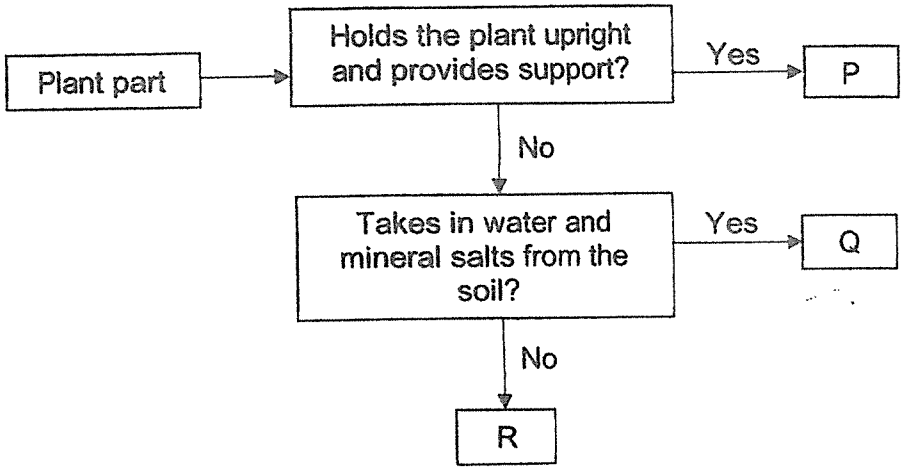
9. Study the flow chart below.



Which parts of a plant do P, Q and R represent?

	P	Q	R
(1)	stem	root	leaf
(2)	root	stem	leaf
(3)	stem	leaf	root
(4)	leaf	stem	root

( )

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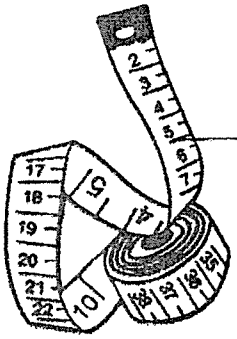
10. The diagram shows a measuring tape. The measuring tape is used to measure the lengths of different objects.



The table below shows the properties of four materials, A, B, C and D. A tick (✓) indicates that the material has the property and a cross (×) indicates that the material does not have that property.

Material	Strong	Flexible
A	✓	✓
B	×	✓
C	×	×
D	✓	×

Based on the properties shown above, which material is most suitable to make the measuring tape?

(1) A

(2) B

(3) C

(4) D ( )

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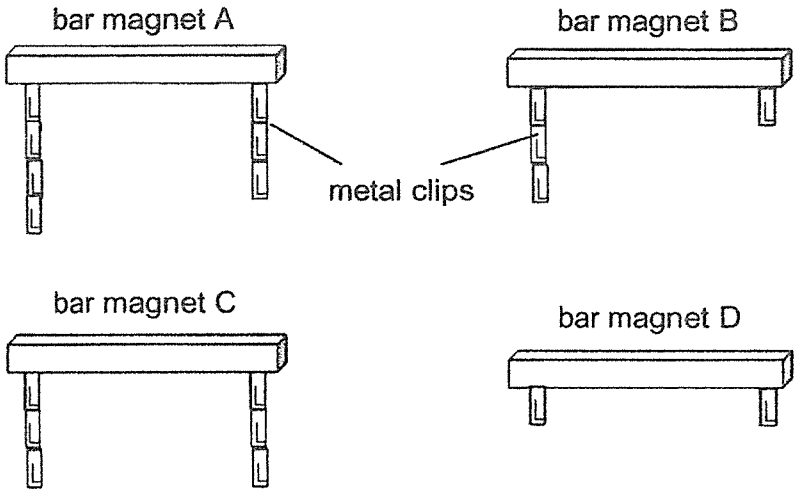
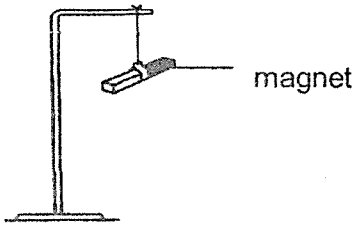
11. Susan hung metal clips to the poles of each magnet until the last clip could not be hung any more. The diagrams below show the results of her experiment.



Which bar magnet has the weakest magnetic strength?

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

12. Leah hung a magnet as shown in the diagram below. She gave the magnet a gentle push. The magnet turned and eventually stopped.



In which direction would the magnet come to a rest?

(1) east-west
(2) north-east
(3) south-west
(4) north-south ( )

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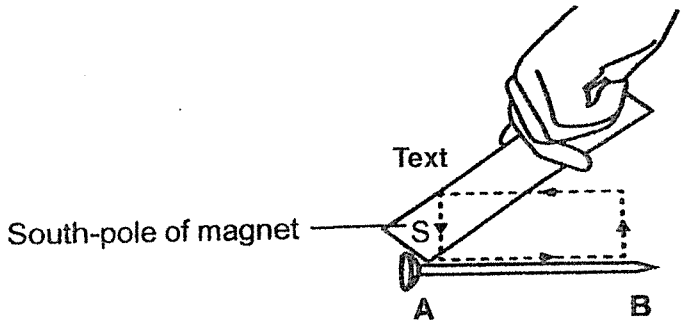
13. Jun Hong wanted to turn an iron nail into a temporary magnet. He used a bar magnet to stroke the iron **nail in the same direction repeatedly** as shown in the diagram.



What will the poles of the temporary magnet be at points A and B?

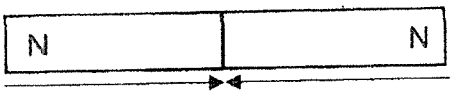
	A	B
(1)	North	North
(2)	South	North
(3)	South	South
(4)	North	South

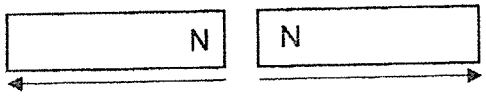
( )

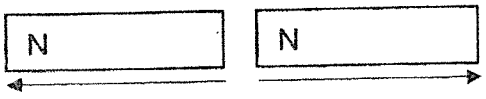
14. Linda placed two bar magnets next to each other. She drew four observations as seen in the diagrams below. She indicated the North-pole of the magnet with the letter 'N'. The arrows show the movement of the magnets towards or away from each other.

Which of the following diagrams shows the correct observation?

(1)


(2)


(3)


(4)


( )

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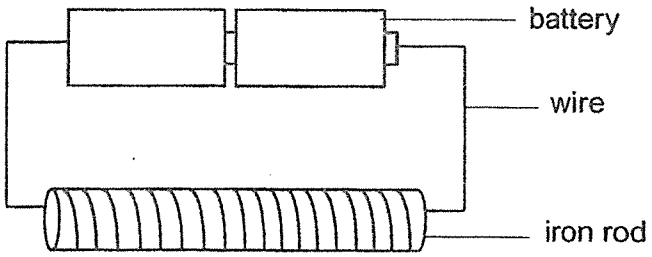
15. Shaun wanted to find out if the number of coils around an iron rod would affect the strength of the electromagnet. He set up the experiment as shown in the diagram below.



Shaun repeated the experiment with three other set-ups with different number of coils around the iron rod. He recorded the results in the table below.

Set-up	Number of pins attracted to the iron rod
P	13
Q	17
R	5
S	8

Which set-up likely had the most number of coils around the iron rod?

(1) P

(2) Q

(3) R

(4) S

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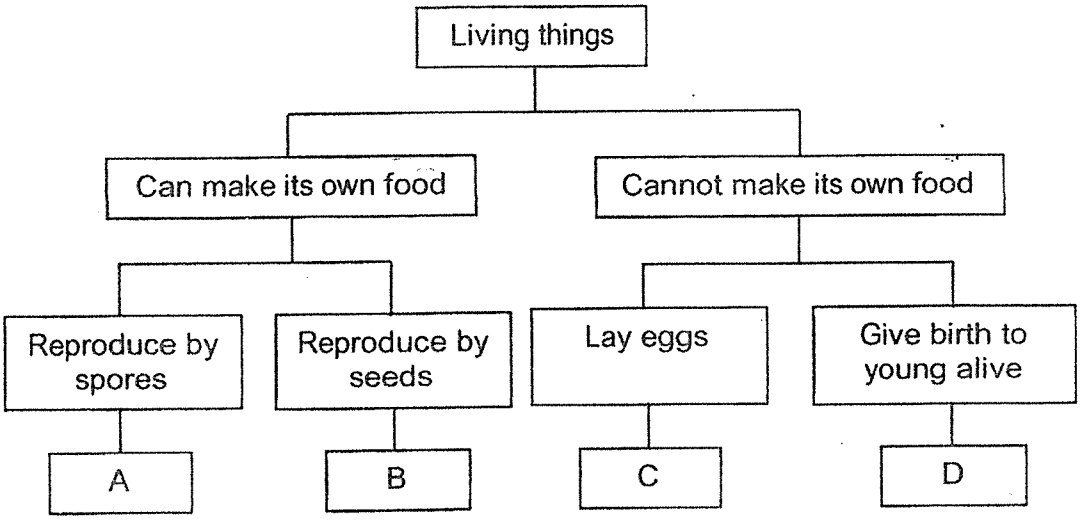
Red Swastika School
Primary 3 Science
Revision Paper 4

Name: _____ ( )

Class : P3 _____ Date: _____

Answer all questions in the space provided.

16. Organisms A, B, C and D have been classified as shown below.



(a) Based on the classification chart, state one similarity between C and D. (1m)

_____

_____

(b) Which group of living things do A and B most likely belong to? (1m)

_____

(c) Classify these organisms according to the classification chart. Fill in the blanks with the letters A, B, C or D. (2m)

Organism	Letter (A, B, C or D)
Bird's nest fern	
Elephant	

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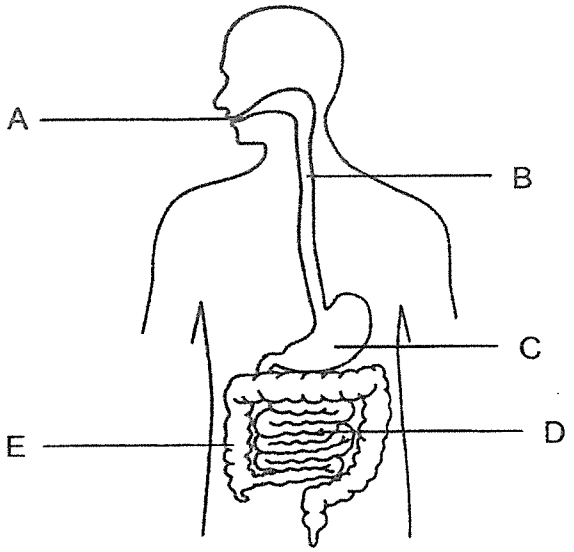
17. Study the organ system below.



(a) Which organs, A, B, C, D or E, produce digestive juices?
Put a tick (✓) if digestive juices are produced in the organ. You may tick more than one organ. (1m)

Organ	A	B	C	D	E
Digestive juices produced					

(b) Read the statements below. Write 'True' or 'False' in the correct boxes. (2m)

	Statements	True or False
(i)	Digestion starts in part B.	
(ii)	Digestion ends in part C.	
(iii)	Digested food passes through the walls of part D.	
(iv)	Undigested food in part E will pass out through the anus.	

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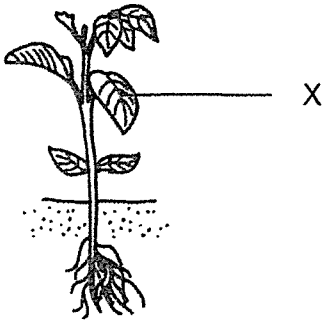
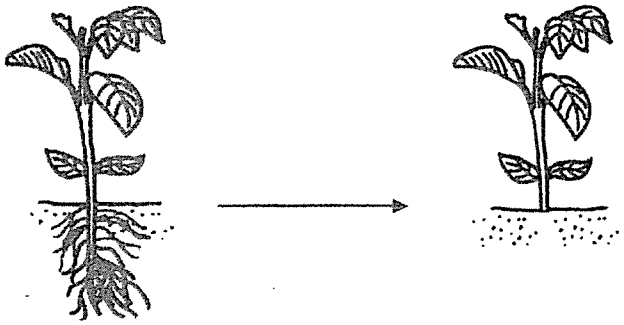
18. The diagram below shows a plant.



(a) State one function of part X of the plant? (1m)

_____

Part of the plant was removed as shown in the diagram below. After a few days, the plant died.



Before plant part was removed

After plant part was removed

(b) Which part of the plant was removed? (1m)

_____

(c) Explain how the removal of the plant part caused the plant to die. (1m)

_____

_____

3

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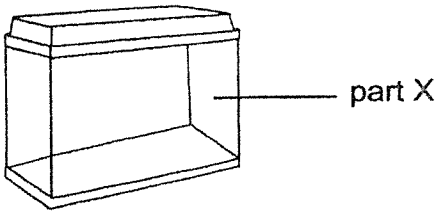
19. The table below shows the properties of four materials, A, B, C and D. A tick (✓) indicates that the material has the property and a cross (×) indicates that the material does not have the property.

Material	Flexible	Allows light to pass through
A	✓	✓
B	✓	×
C	×	✓
D	×	×

Chris wanted to make a fish tank as seen in the picture below.



(a) Based on the table, which material, A, B, C or D is most suitable to make part X of the tank? (1m)

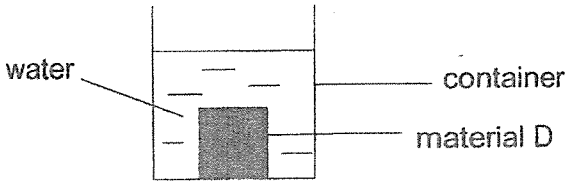
_____

(b) Explain your answer for part (a). (1m)

_____

_____

(c) Chris placed material D into a container of water. She observed the following as shown in the diagram below.



Based on the diagram, which property of material can you tell about material D? (1m)

_____

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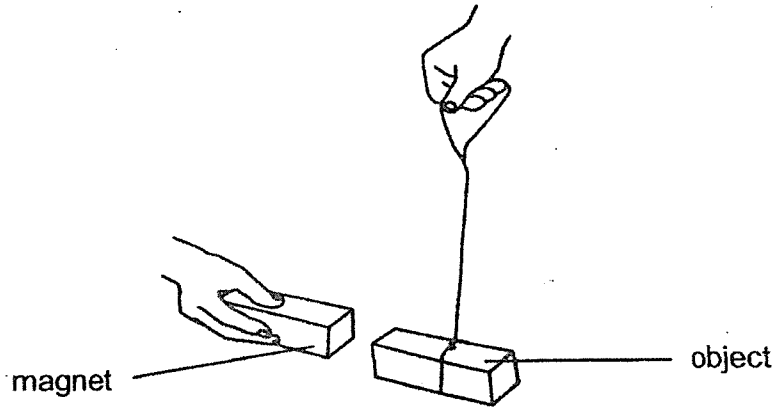
20. Leanne placed a magnet close to three objects made of different materials. An example of the set-up is shown below.



She moved the magnet slowly towards the objects. Then, she recorded her observations in the table as shown.

Objects	Observations	
	when facing north-pole of the magnet	when facing south-pole of the magnet
A	moved towards the magnet	moved towards the magnet
B	moved away from the magnet	moved towards the magnet
C	did not move	did not move

(a) Which object, A, B or C, is likely to be a magnet? (1m)

_____

(b) Explain your answer in part (a). (1m)

_____

_____

(c) Give an example of a material that object C can be made of. (1m)

_____

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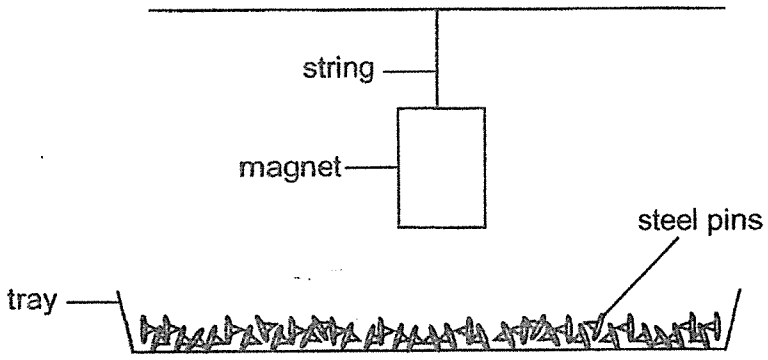
21. Min Yan conducted an experiment to find out which magnet (A, B, C or D) has the greatest magnetic strength. She set up the experiment as shown below.



She hung magnets A, B, C and D from the same height and recorded the number of steel pins the magnet attracted in the table below.

Magnet	Number of steel pins attracted
A	5
B	13
C	16
D	9

(a) Based on the table above, arrange the magnets according to their magnetic strength. Write the letters A, B, C and D in the correct boxes below.(1m)

(i) , (ii) , (iii) , (iv)

weakest ⟶ strongest

(b) Without adding or removing anything from the set-up, what can Min Yan do to make the magnets attract more steel pins? (1m)

_____

_____

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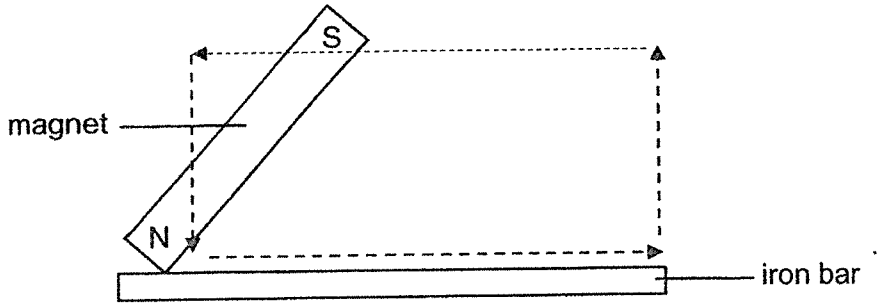
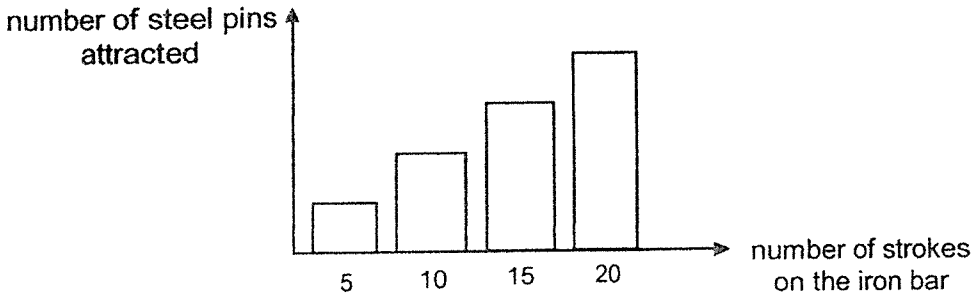
21. Min Yan wanted to find out if the number of strokes would affect the strength of the temporary magnet. She stroked an iron bar using a magnet repeatedly in the same direction as shown in the diagram below.



Min Yan then placed the temporary magnet over some steel pins to see how many steel pins the temporary magnet attracted. She recorded her results in the graph below.



(c) Based on the graph, what is the relationship between the number of strokes on the iron bar and the number of steel pins attracted? (1m)

_____

_____

(d) Min Yan repeated the experiment with an aluminium bar instead. She found that she was not able to attract any steel pins. Why is this so? (1m)

_____

_____

End of Booklet B
Please check your answers

2

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ANSWER KEY

YEAR : 2021
LEVEL : Primary 3
SCHOOL : Red Swastika School
SUBJECT : SCIENCE
TERM : Milestonce Check 2 & 3, Revision Paper 3 & 4

Milestone Check 2

Q1	4	Q2	3	Q3	4	Q4	2	Q5	4
Q6	3	Q7	1						

Q8	(a) J, as it can float on water. (b) Material L, It sinks in water, which can prevent the ship from drifting away.
Q9	(a) mould (b) The dark spots reproduce by spores. (c) It is not warm enough as a mould needs warmth to grow.

Milestone Check 3

Q1	2	Q2	1	Q3	4	Q4	2	Q5	4
Q6	2	Q7	3						

Q8	(a) 7 (b) Variable 1 : Same type of iron nail. Variable 2 : Same number of battery.
Q9	(a)(i) D (ii) A (b) U→ $T \rightarrow Q \rightarrow S \rightarrow R$

Revision Paper 3 & 4

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

Q16	(a) Both C and D cannot makes its own food. (b) Plants (c) Bird's nest fern : A Elephant : D
Q17	(a) Tick A, C and D (b) (i) False

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	(ii) False (iii) True (iv) True
Q18	(a) It makes food for the plant. (b) Roots (c) The roots absorb water for the plant,if the roots was removed from the plant, the plant will die without water.
Q19	(a) C (b) C , is not flexible so it will not break and it allows light to pass through so that the people can see the fishes. (c) It sinks in water.
Q20	(a) B (b) B is repelled by the magnet ,and only magents are able to repel each other when like poles are facing each other. (c) wood
Q21	(a) (i) A (ii) D (iii) B (iv) C (b) She can bring the tray of pins closer to the magnet. (c) As the number of strokes on the iron bar increases, the number of steel pins attracted increases. (d) Aluminium is a type of metal that is a non-magnetic material, thus not being able to be magnetised.

END

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