RAFFLES GIRLS' PRIMARY SCHOOL

PRACTICE PAPER 1

Section A	/56
Section B	/44
Your score out of 100 marks	
Parent's signature	

Name : _____ Index No.: ____Class: P4___ Date: _____

SCIENCE ATT: 1 h 45 min

SECTION A (28 x 2 marks)

For each question from 1 to 28, 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 (OAS) provided.

1. The graph below shows the mass of a baby over a period of twelve months.



The graph shows that living things _____.

(1) grow
(2) reproduce
(3) need air, food and water
(4) respond to changes in its surroundings

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2. Which one of the following is **not** a characteristic of an insect?

(1) They can fly.
(2) They have feelers.
(3) They have six legs.
(4) They have three body parts.

3. The table below shows some information on the characteristics of animals W, X, Y and Z. A tick (✓) shows the presence of the characteristic.

	W	X	Y	Z
Can it swim?	✓	✓		✓
Does it have gills?		✓		
Does it have an outer covering of scales?	✓	✓		

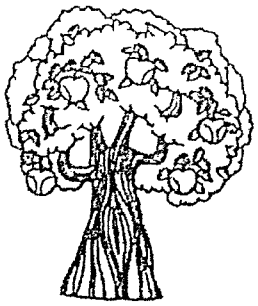
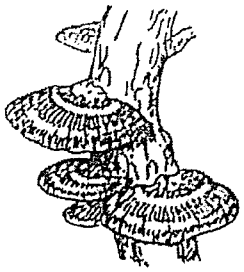
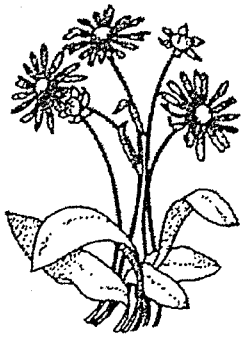
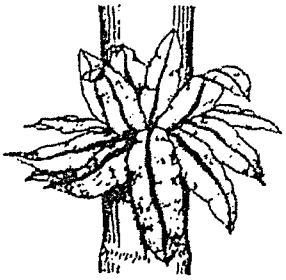
Which one of the following is a fish?

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

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4. The table below shows how some living things can be grouped.

Group P	Group Q
 apple tree	 bracket fungus
 daisy plant	 bird's nest fern

Which one of the following shows the most suitable heading for groups P and Q?

	Group P	Group Q
(1)	Has leaves	Does not have leaves
(2)	Flowering Plants	Non-Flowering Plants
(3)	Makes its own food	Does not make its own food
(4)	Reproduce by seeds	Reproduce by spores

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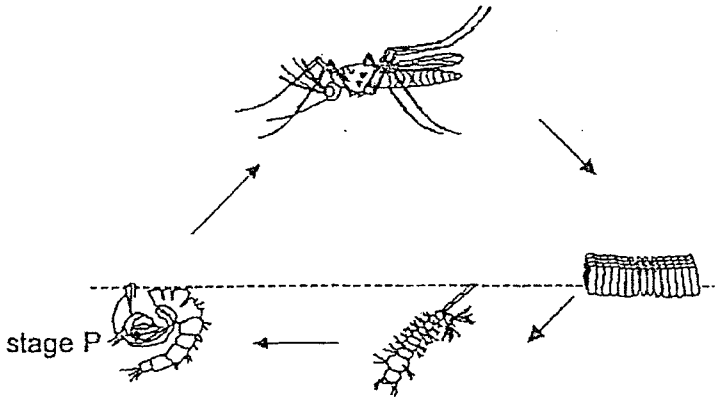
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5. Which of the following statement(s) describe(s) the similarities between plants and fungi?

A They have a stem.
B They reproduce by seeds.
C They do not make their own food.
D They respond to changes around them.

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

6. The diagram below shows the life cycle of a mosquito.

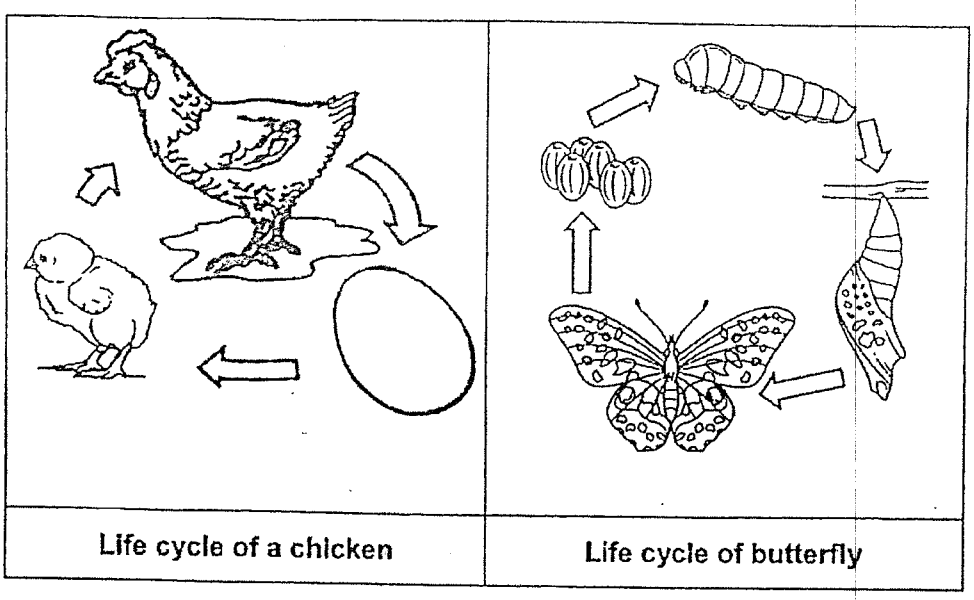


Which one of the following statements is true about stage P?

(1) It can fly.
(2) It does not feed.
(3) It can reproduce.
(4) It resembles the adult.

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7. The diagrams below show the life cycle of a chicken and a butterfly.



Life cycle of a chicken	Life cycle of butterfly

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

A Both reproduce by laying eggs.
B Both have three-stage life cycle.
C Both the young resemble the adults.
D Both have wings as soon as they are hatched.

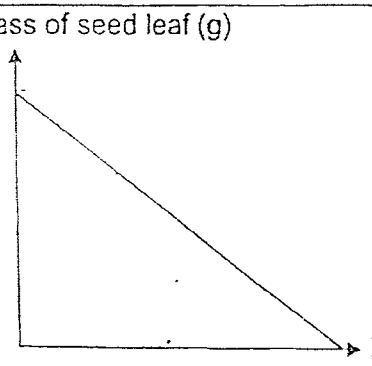
(1) A only
(2) A and D only
(3) B and C only
(4) C and D only

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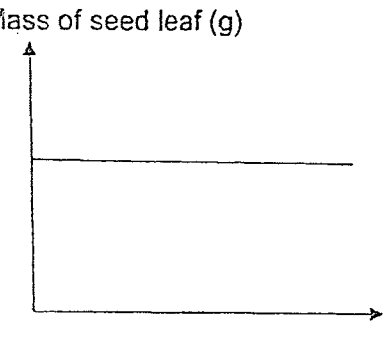
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8. Joshua grew some beans. Which of the following correctly shows the dry mass of the seed leaf as the seedling increases in height?

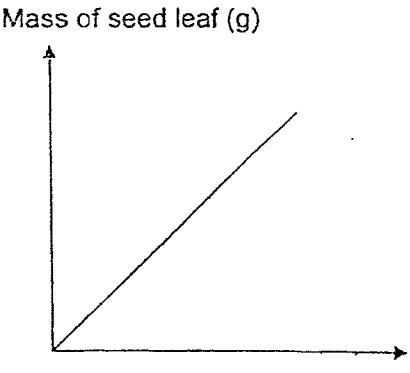
(1)



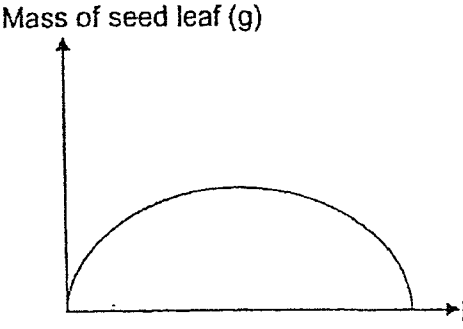
(2)



(3)



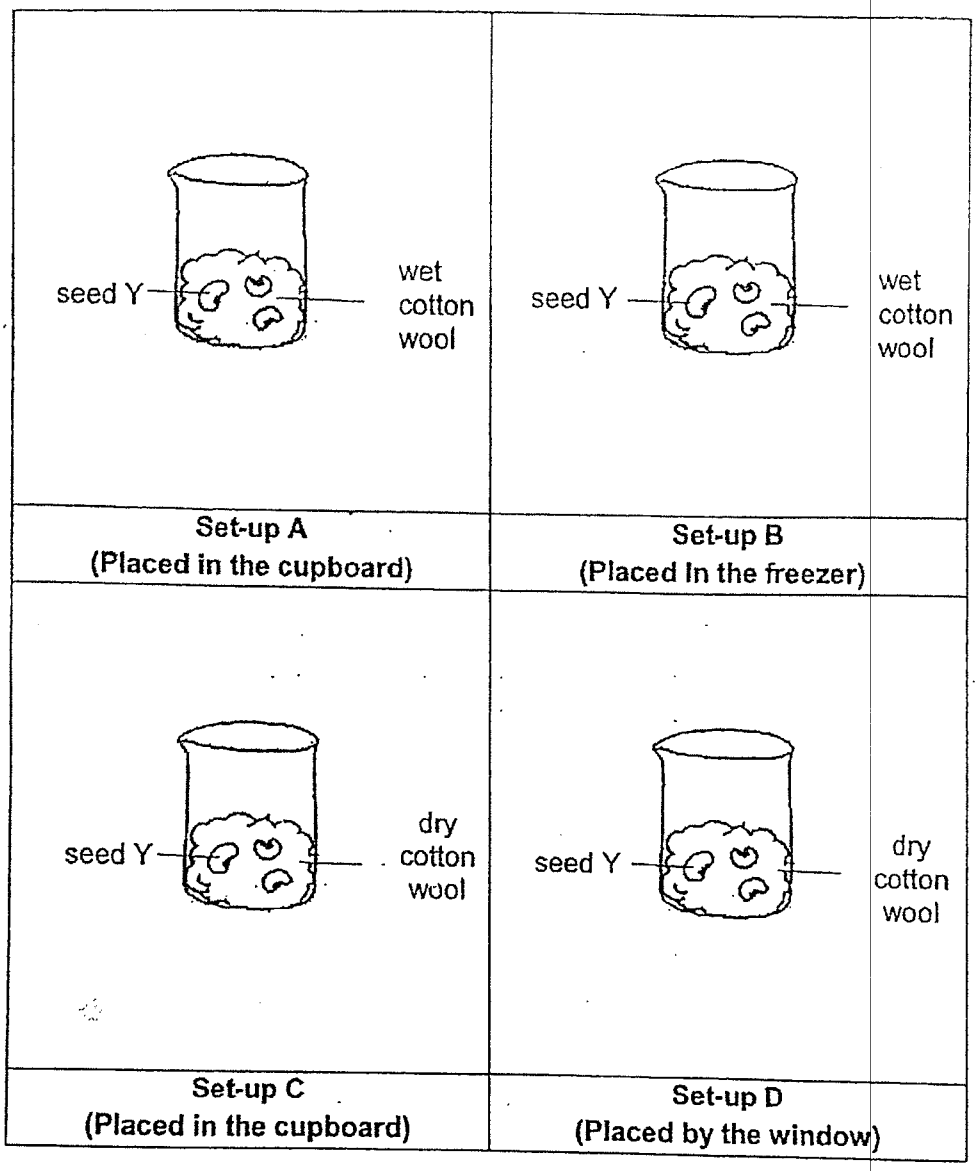
(4)



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9. The diagram below shows four set-ups with identical number of seeds Y placed in different conditions.



In which of the following set-ups will seeds Y germinate?

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

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10. Which one of the following set of organs belongs to human digestive system?

(1)	nose	lungs	gullet	heart
(2)	heart	stomach	blood	blood vessels
(3)	mouth	windpipe	small intestine	large intestine
(4)	gullet	stomach	small intestine	mouth

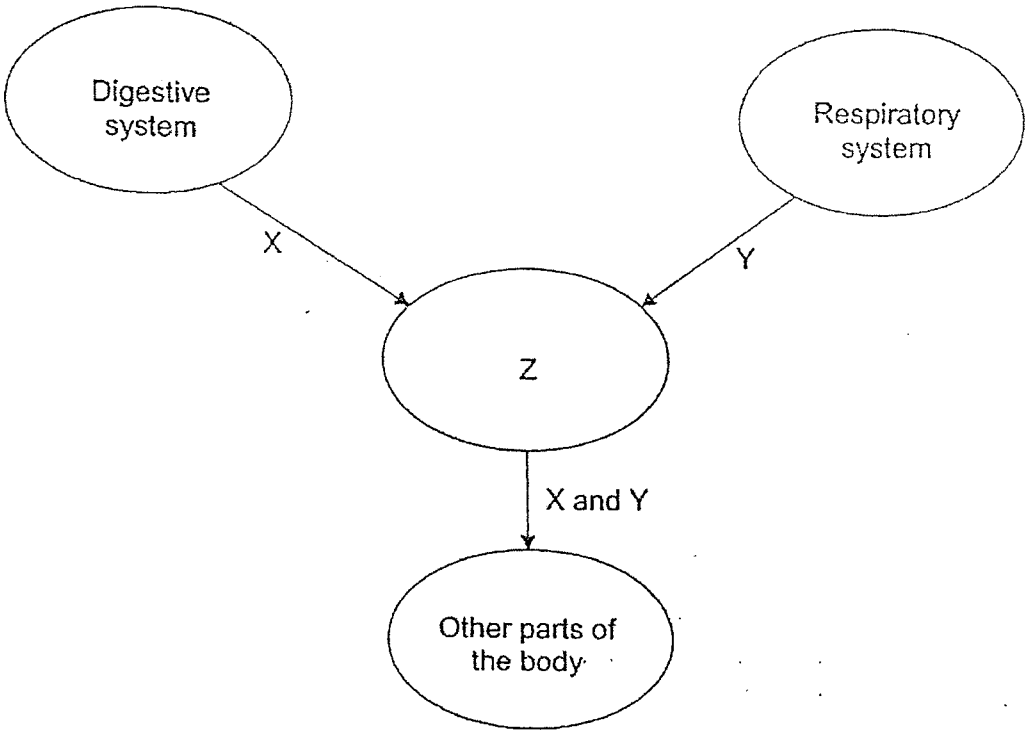
11. Which one of the following shows the function of the skeletal system?

(1) Remove carbon dioxide from the body.
(2) Protect organs like the brains and lungs.
(3) Breaks down food into simpler substances.
(4) Transports nutrients to other parts of the body.

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12. The diagram below shows how substance(s) is/are moved from one system to another. The arrow indicates the direction in which the substance(s) is/are moved.

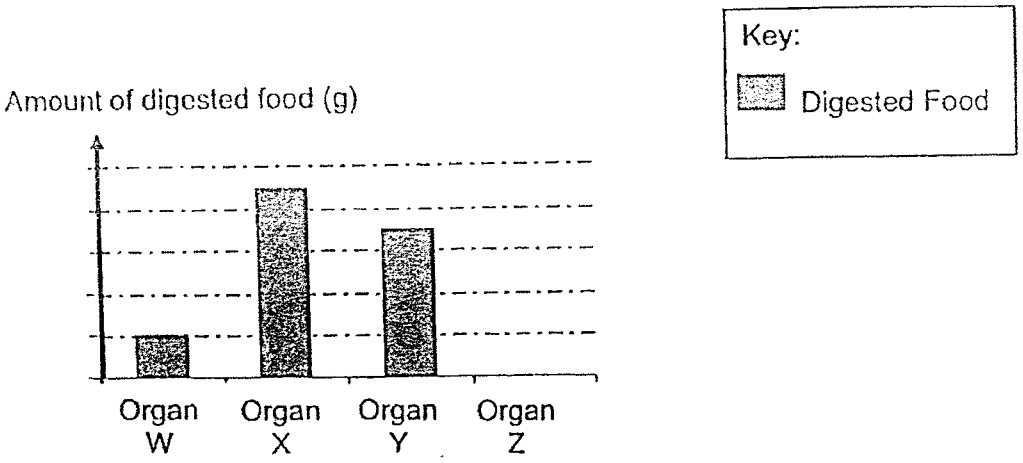


Which of the following best represent substances X and Y and system Z?

	X	Y	Z
(1)	carbon dioxide	nutrients	Circulatory system
(2)	oxygen	nutrients	Muscular system
(3)	nutrients	oxygen	Circulatory system
(4)	oxygen	carbon dioxide	Muscular system

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13. Jeremy ate a bowl of noodles for lunch. The graph below shows the amount of digested food in different organs of the digestive system.



Which of the following organs is likely to be the small intestine?

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

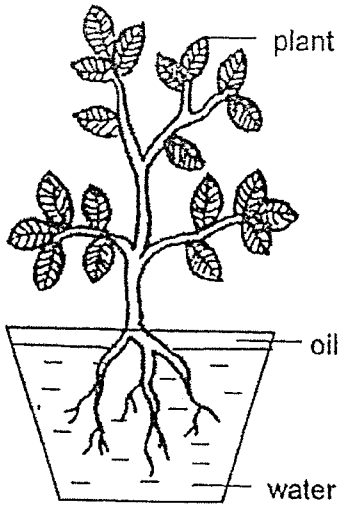
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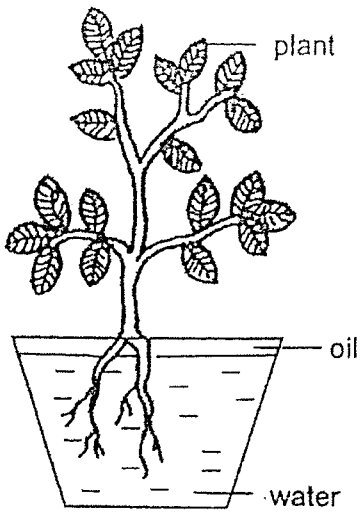
14. Four identical plants with different number of roots were placed into four identical pots filled with same amount of water.

Which one of the following set-ups would most likely to have the least amount of water left in the pot after one week?

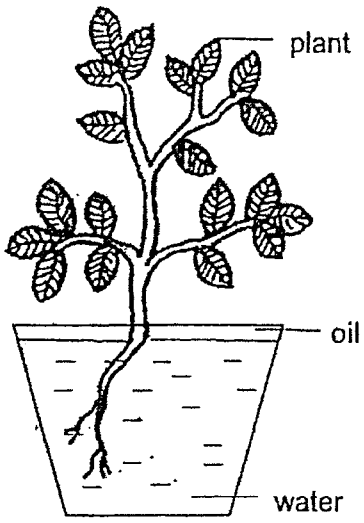
(1)



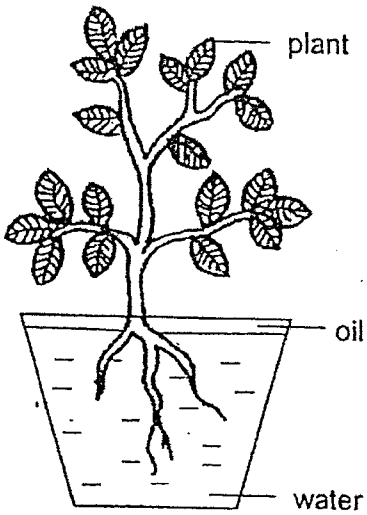
(2)



(3)



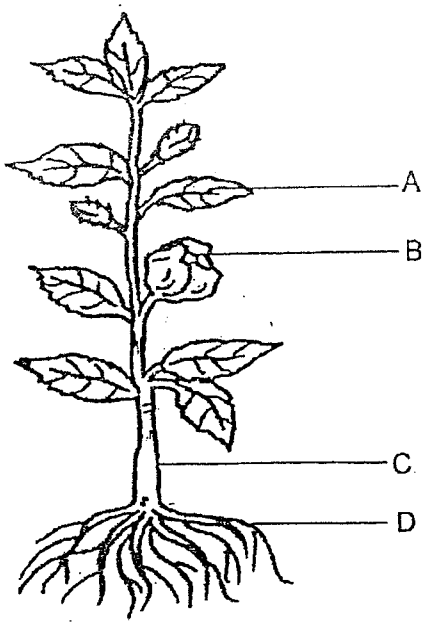
(4)



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15. Four different parts of a plant, A, B, C and D are labelled as shown below.



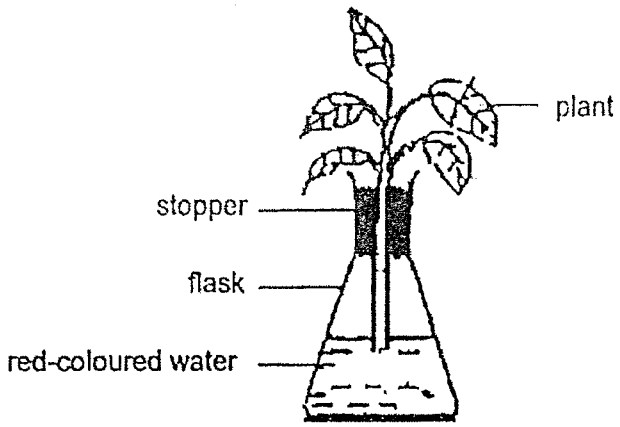
Which one of the following parts helps to make food?

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

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16. Jerry put a plant into a flask of red-coloured water as shown in the diagram below.



The table below shows some information of plants of the same type, A, B and C, that were placed in red-coloured water. A tick (✓) shows the presence of parts of the plant.

Parts of plants	Plants		
	A	B	C
Water-carrying tubes	✓	✓	
Food-carrying tubes	✓		

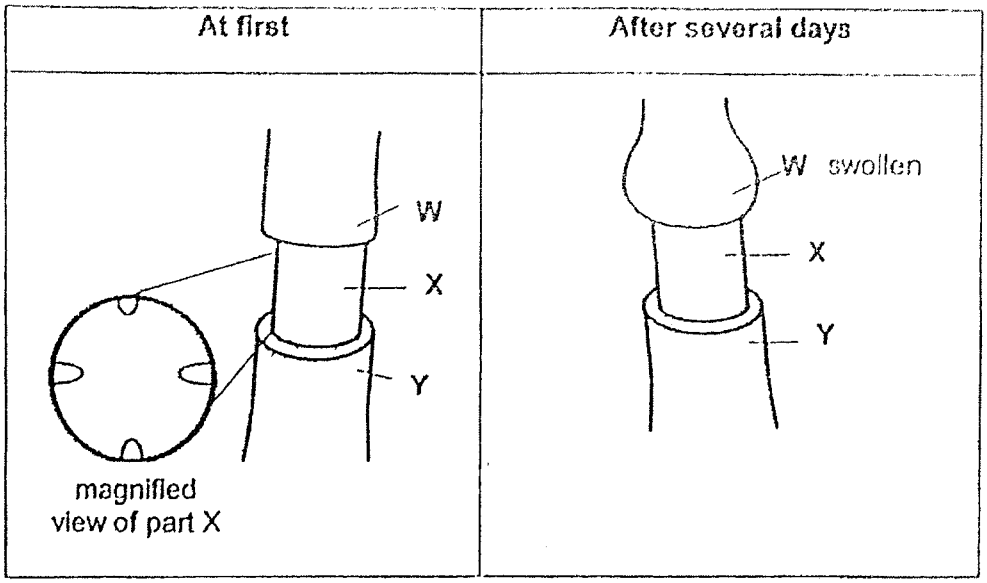
In which plant(s) would the leaves turn red after three days?

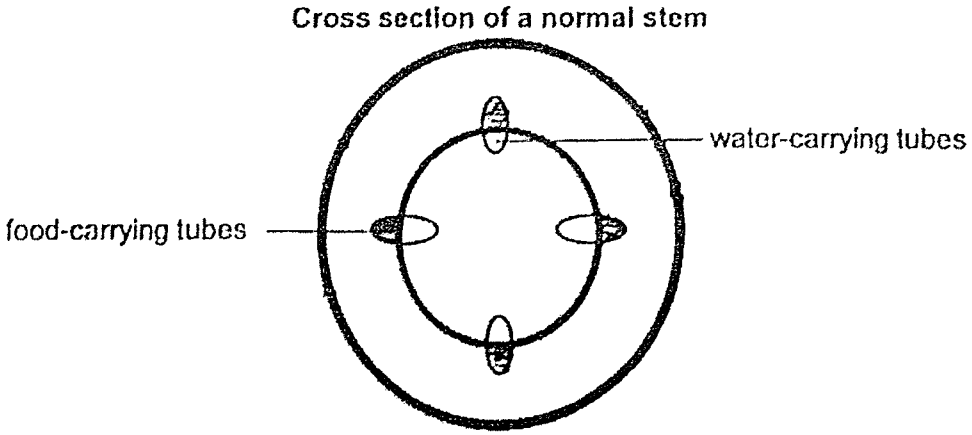
(1) C only
(2) A and B only
(3) B and C only
(4) A, B and C

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17. Allie removed part of the outer ring of a plant. After several days, she observed swelling near the top part of the stem where the ring was removed.





Which one of the following is likely the explanation for the swollen part of the stem observed at W?

(1) Food cannot be transported from W to Y.
(2) Food cannot be transported from Y to W.
(3) Water cannot be transported from W to Y.
(4) Water cannot be transported from Y to W.

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18. John uses a personal floatation device placed around his arms to help keep him float on his back while he relaxes in the pool as shown in the diagram below.



The table below shows some information on the properties of materials P, Q R and S. A tick (✓) shows the presence of the property.

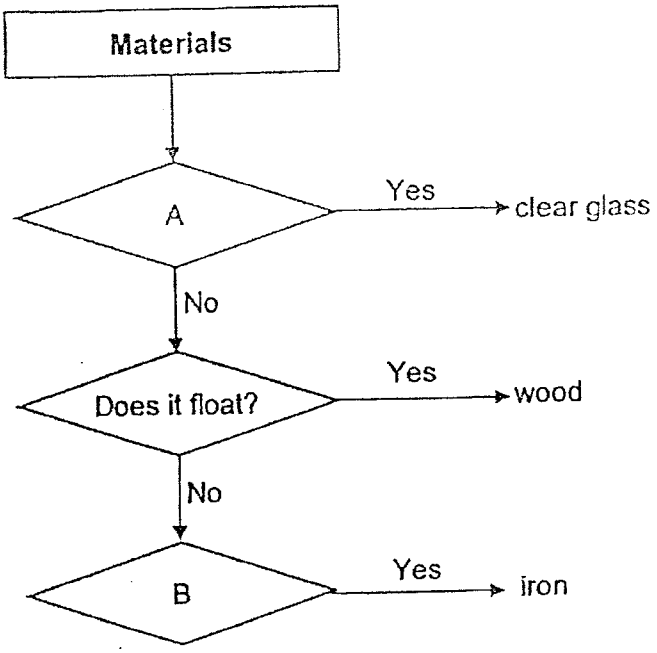
Property / Material	Flexible	Able to float	Waterproof	Allow light to pass through
P	✓			✓
Q			✓	✓
R		✓	✓	
S	✓		✓	

Which one of the following materials is most suitable to be used to make the floatation device?

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

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19. The flow chart below shows how some materials are grouped.



Which one of the following correctly represents questions in A and B?

	A	B
(1)	Is it hard?	Is it light?
(2)	Is it strong?	Does it break easily?
(3)	Does it allow light to pass through?	Is it strong?
(4)	Does it allow light to pass through?	Is it flexible?

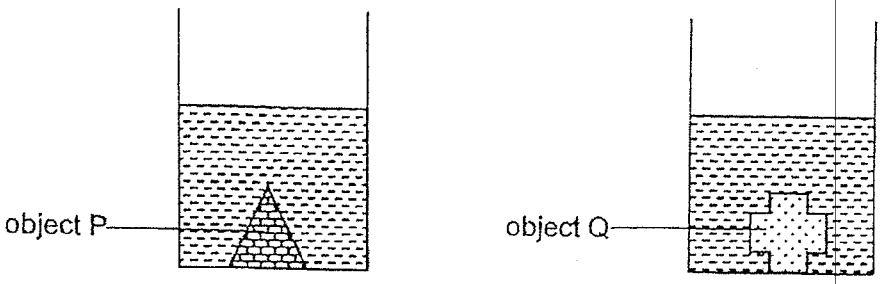
20. Which one of the following is a matter?

(1) Sunlight
(2) Thunder
(3) Lightning
(4) Raindrops

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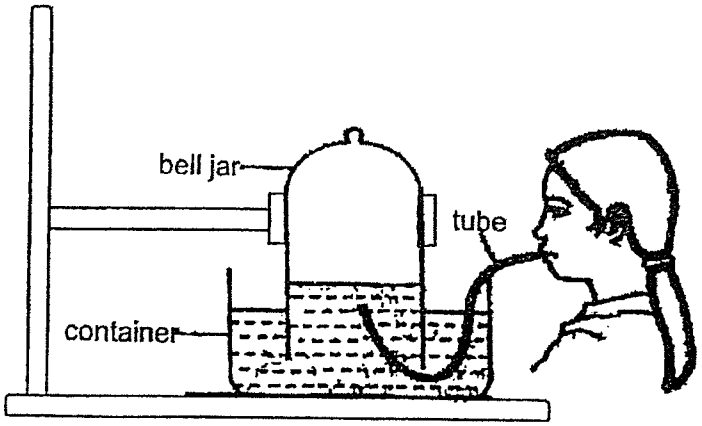
21. Meili filled two beakers with equal amount of water. She then placed objects P and Q in each of the beaker and observed that the water level rose to the same height as shown in the diagram below.



Which one of the following statements about objects P and Q is correct?

(1) They have the same mass.
(2) They have the same volume.
(3) They have the same weight.
(4) They are made of the same material.

22. Izzy set up the experiment shown below.



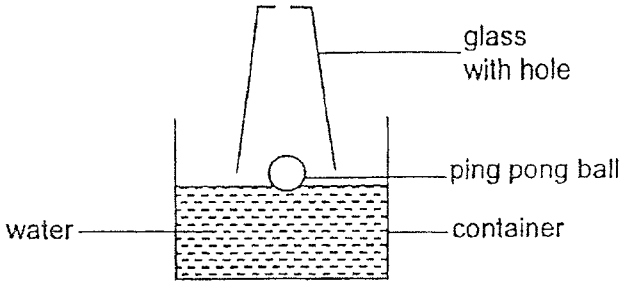
What would she observe after she had blown air into the tube for twenty seconds?

A Water level in the bell jar would increase.
B Water level in the container would increase.
C Volume of air in the bell jar would increase.
D Volume of water in the container would decrease.

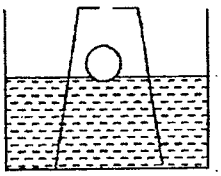
(1) A and B only
(2) B and C only
(3) B and D only
(4) A, B, C and D

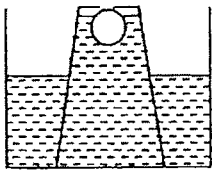
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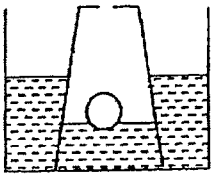
23. A ping pong ball was placed in a container of water as shown below. An empty glass with a hole was then pushed into the container.

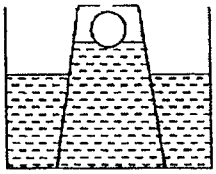


Which one of the following shows the correct observation after the glass was pushed into the container of water?

(1) 

(2) 

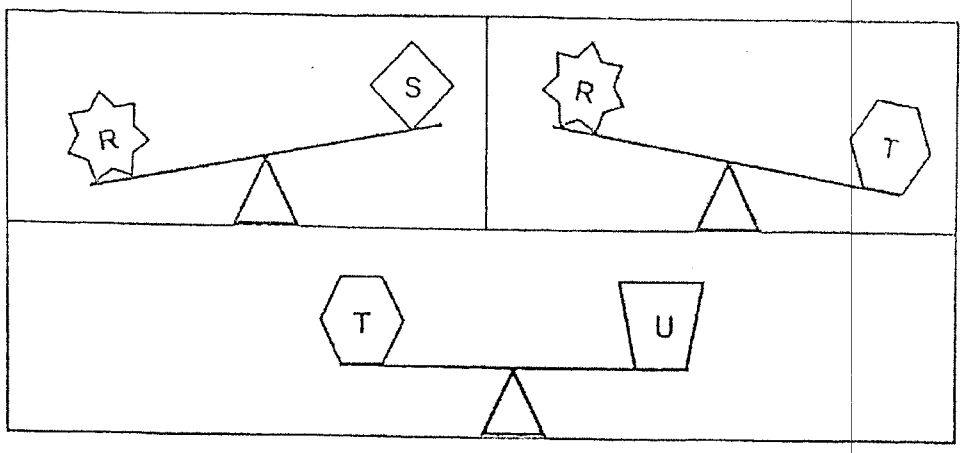
(3) 

(4) 

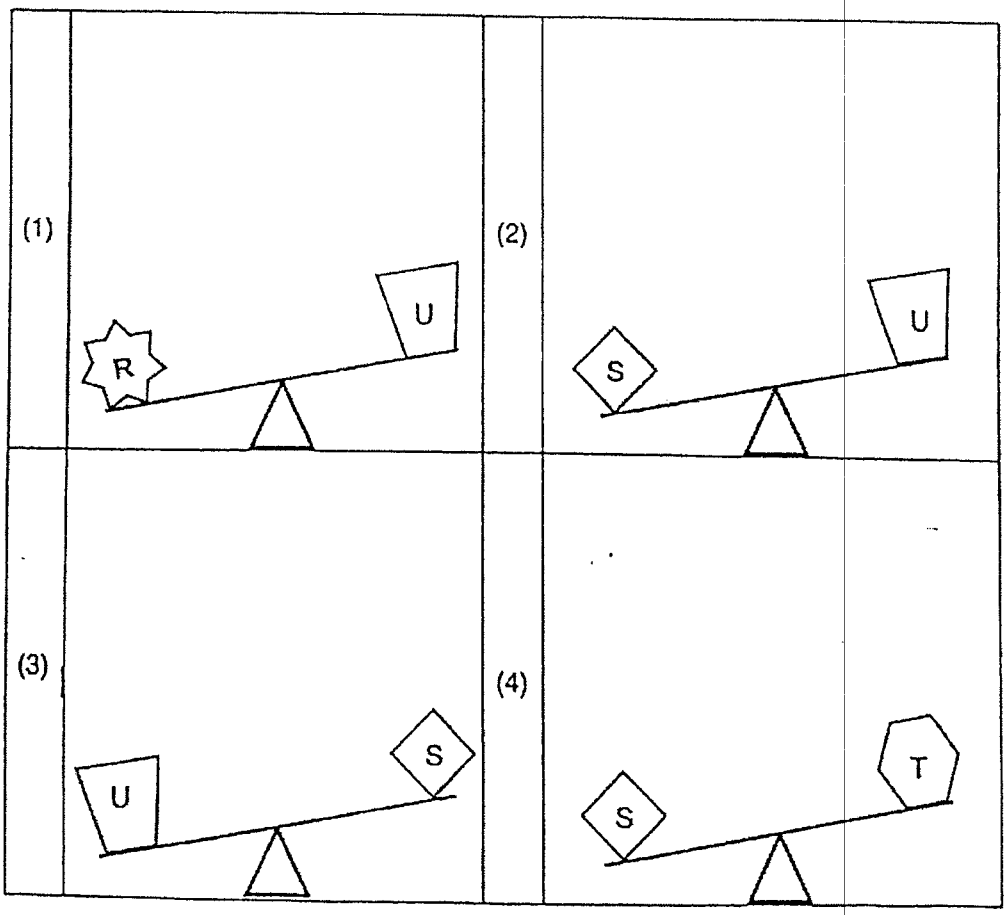
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24. The diagrams below show the results of placing objects R, S, T, and U on a balance.

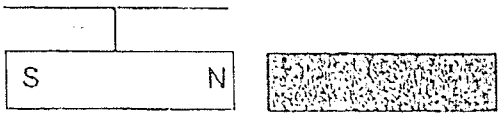


Which one of the following shows the correct observation?



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25. Isabella hung a magnet from the top of her table and labelled the north-pole and south-pole as N and S respectively. She then placed three bars, W, X, and Y, next to both poles of the magnet one at a time.



magnet bar W

She then recorded the interactions between the magnet and the bars in the table below.

	Interaction between the bar and poles of magnet	
Bar	**N-Pole**	**S-pole**
W	Attraction	Attraction
X	No interaction	No interaction
Y	Attraction	Repulsion

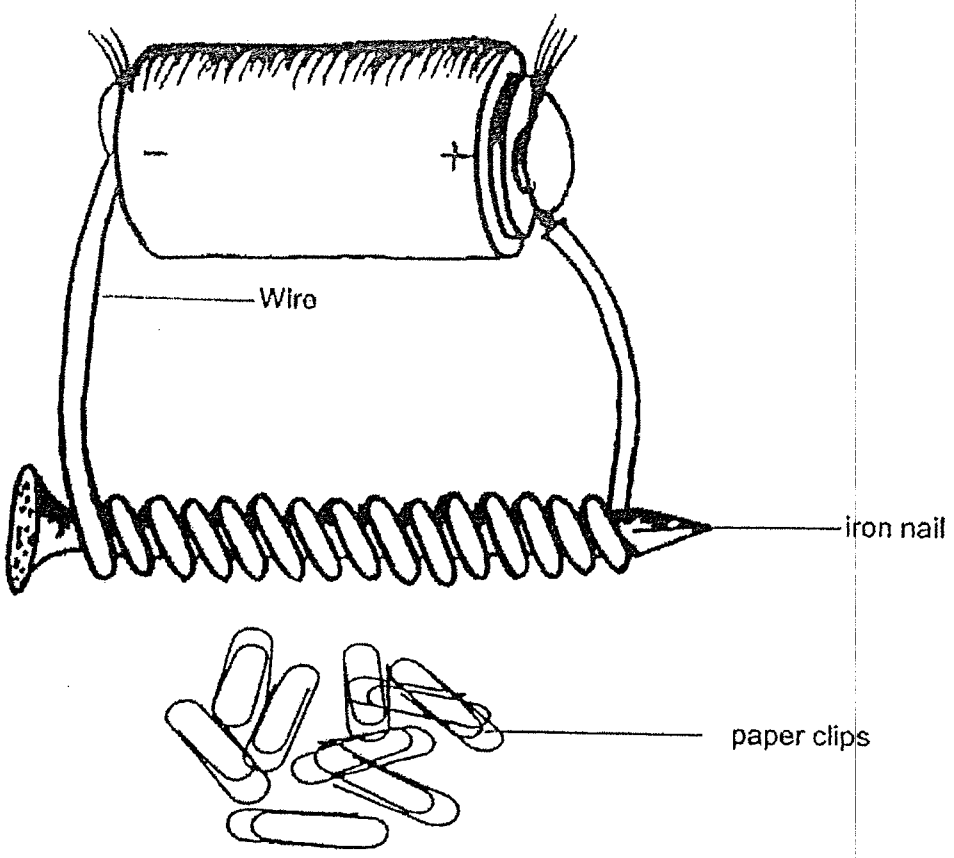
Which one of the following represent bars W, X and Y correctly?

	Bar W	Bar X	Bar Y
(1)	Steel	Wood	Magnet
(2)	Steel	Magnet	Wood
(3)	Magnet	Steel	Wood
(4)	Magnet	Wood	Steel

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26. Sam made an electromagnet using an iron nail placed in an electric circuit as shown below. He observed that only some paper clips were attracted to it.



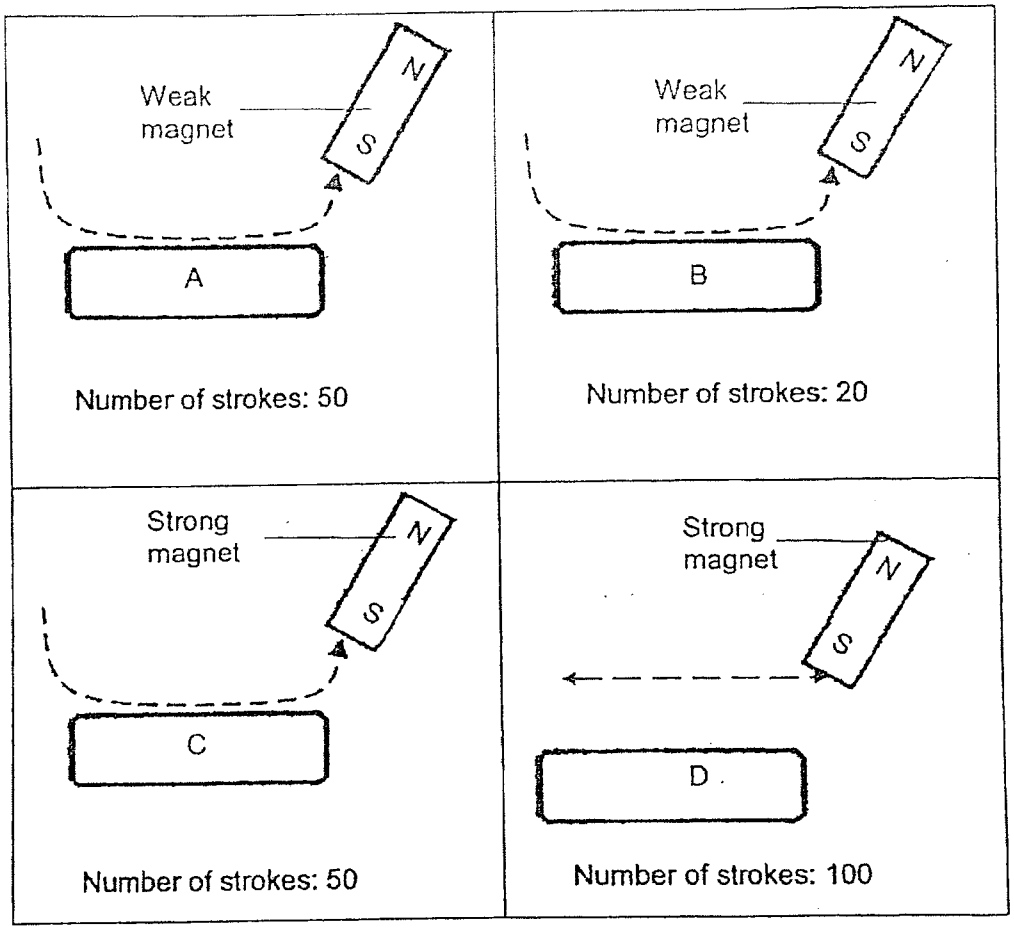
Which of the following statement(s) suggest(s) way(s) of increasing the number of paper clips attracted by the electromagnet?

A Increase the size of the nail.
B Increase the length of the wire.
C Increase the number of batteries.
D Increase the number of coils around the nail.

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

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27. Estelle stroke four identical iron rods, A, B, C and D, using magnets of different magnetic strength in the directions indicated by the arrows shown below.



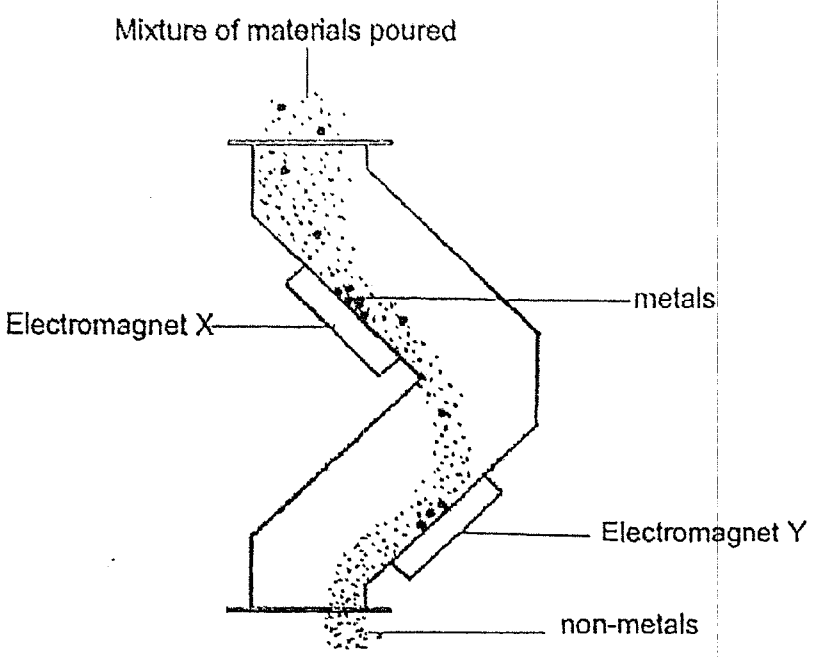
Which one of the following shows the correct arrangement in order of strength for the temporary magnets, starting with the weakest magnet?

	Weakest → Strongest			
(1)	A	B	C	D
(2)	D	A	B	C
(3)	D	B	A	C
(4)	B	A	C	D

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28. The diagram below shows a separator used in a recycling plant to separate metals from non-metals.



Unfortunately, one of the electromagnets was damaged and a replacement had to be used.

Allen placed the electromagnets the same distance above a tray of nails and observe the number of nails attracted to each of them in the table below.

Electromagnets	Number of iron nails attracted
A	6
B	15
C	8
D	12

Which one of the following electromagnets would be the most suitable as the replacement?

(1) A

(2) B

(3) C

(4) D

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SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL

LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2022 WA1

SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	1	2	4	1	2	1	1	1	4

Q 11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	3	2	1	1	2	1	3	3	4

Q 21	Q22	Q23	Q24	Q25	Q26	Q27	Q28		
2	2	1	3	1	3	3	12		

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