SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2014

SCIENCE

PRIMARY THREE

NAME: _____ ( ) DATE: _____

CLASS: PRIMARY 3 SY / C / G / SE / P

BOOKLET A

20 questions

40 marks

Total time for Booklets A & B: 1 h 25 min

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Part I (20x 2 marks)

For each question from 1 to 20, 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 snail pulled its head into its shell when someone touches it. This shows that the snail is a living thing because it can _____.



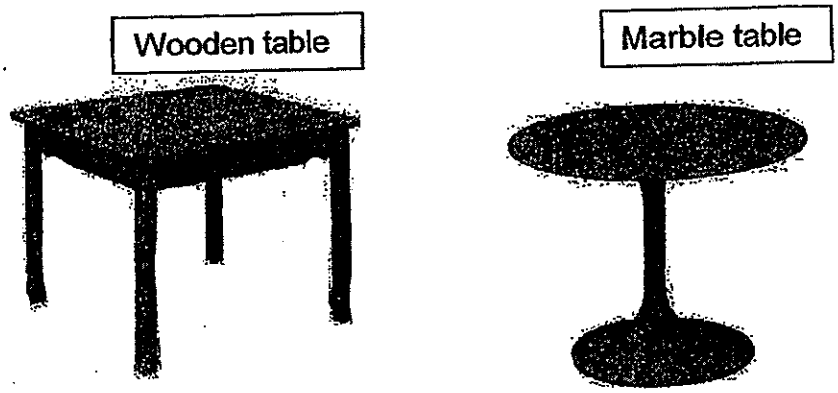
(1) die

(2) respond

(3) grow

(4) reproduce

2. Study the picture carefully.



Which of the following statements are correct?

A : Both tables are non-living things.
B : Both tables have four-legs.
C : The wood was 'once alive' but marble was 'never alive'.
D : The wooden table is a living thing.

(1) A and B only

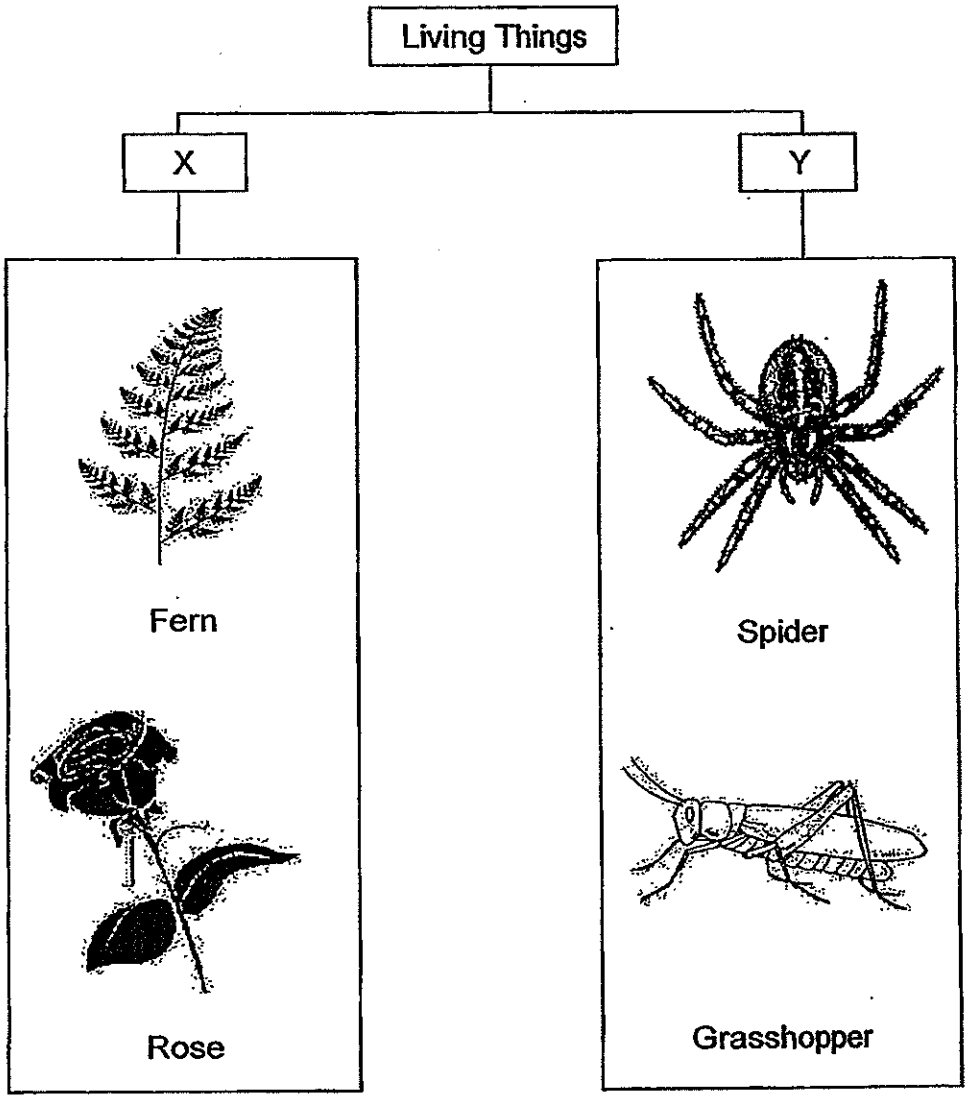
(2) C and D only

(3) B and D only

(4) A and C only

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

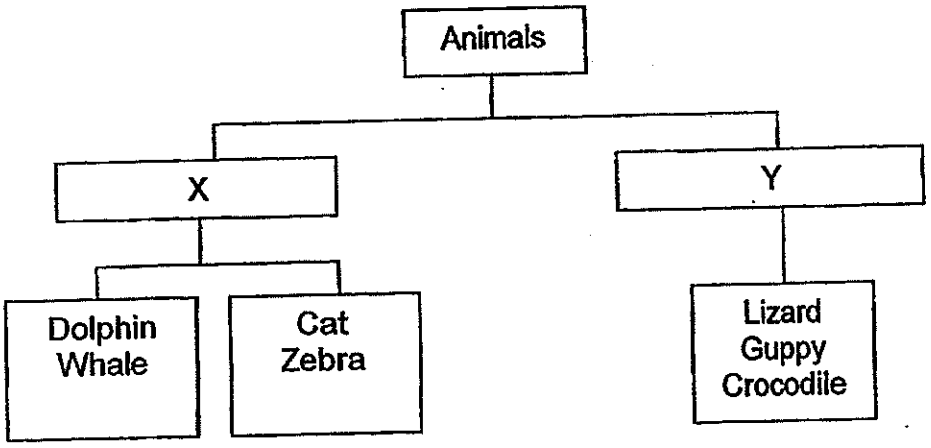


Which one of the following observations is the most suitable heading for Group X and Y ?

	Group X	Group Y
(1)	Reproduce by seeds	Reproduce by laying eggs
(2)	Plants	Insects
(3)	Fungi	Animals
(4)	Plants	Animals

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4. Study the classification chart below. What do X and Y represent respectively?



	X	Y
(1)	Have lungs	Have gills
(2)	Have hair	Have scales
(3)	Live in water	Live on land
(4)	Lay eggs	Give birth to young alive

5. Which of the following children made a correct statement about the characteristics of a mushroom?

Alayna : It can make its own food.
Bell : It is a plant as it has a stem.
Cindy : It reproduces by spores.
Delia : It has a cap, gills and leaves.

(1) Alayna

(2) Bell

(3) Cindy

(4) Delia

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6. Study the characteristics of **A**, **B**, **C** and **D**.

	Waterproof	**Flexible**	**Strong**	**Heavy**
A	√		√	
B		√	√	√
C		√		√
D	√			

Which one of them is most suitable to be a safety helmet?

(1) A

(2) B

(3) C

(4) D

7. Zen would like to choose a material to make a **shower curtain.** Which property should she consider when choosing the material?
The material _____.

(1) can float

(2) is flexible

(3) is waterproof

(4) is strong

8. The following objects are classified according to their properties. Which objects are classified wrongly?

P	Q
Clear glass bottle	T-shirt
Car windscreen	Glass beaker
Magnifying glass lens	Cardboard

(1) Car windscreen

(2) Glass beaker

(3) Cardboard

(4) T-shirt

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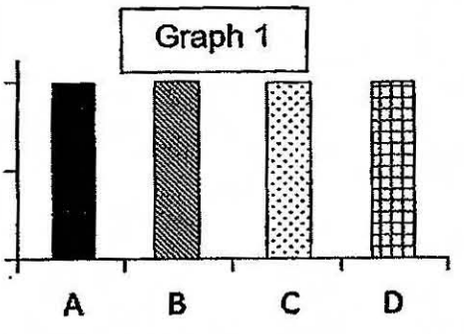
9. Study the table below.

	A	B	C
Can it make its own food?	√		
Does it have feathers?		√	

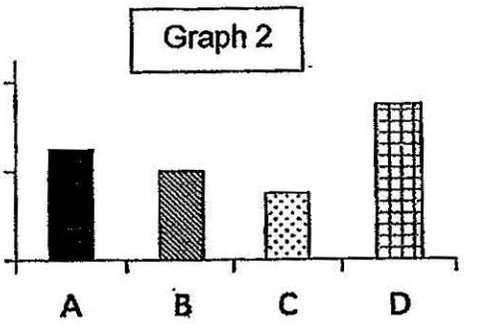
Which of the following living things are classified correctly?

	A	B	C
(1)	Parrot	Whale	Fern
(2)	Fern	Parrot	Whale
(3)	Whale	Fern	Parrot
(4)	Fern	Whale	Parrot

10. Valerie ate four different types of food A, B, C and D. Graph 1 shows the amount of A, B, C and D before digestion. Graph 2 shows the amount of A, B, C and D still undigested after 4 hours.



Amount of food before digestion



Amount of undigested food after 4 hours

Based on the information given in the graphs, arrange the type of food A, B, C, and D in the order starting from the fastest to the slowest to digest ?

(1) A, B, C, D

(2) B, C, D, A

(3) C, B, A, D

(4) D, A, B, C

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11. Which of the following lists the correct parts of the **respiratory system**?

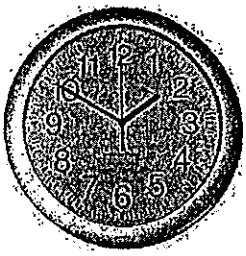
(1) mouth, lungs, gullet

(2) mouth, windpipe, heart

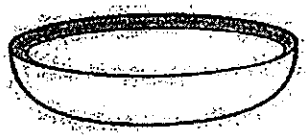
(3) nose, lungs, heart

(4) nose, windpipe, lungs

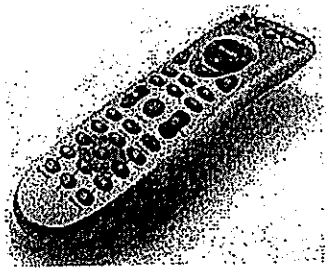
12. Which of the following is **NOT** a system?



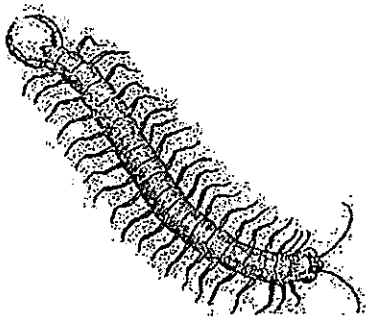
(1) A clock



(3) A plate



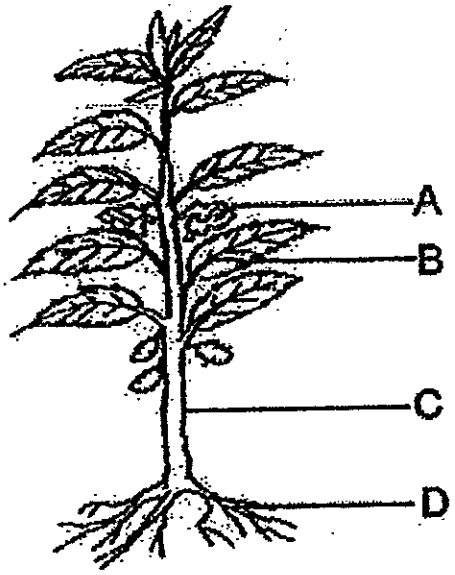
(2) A remote controller



(4) A centipede

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13. Which of the following statements is correct?



(1) Part A takes in water for the plant.

(2) Part B takes in oxygen for the plant.

(3) Part C takes in mineral salts for the plant.

(4) Part D transports water and food for the plant.

14. Which of the following statements about plants are correct?

A. All plants produce flowers.
B. Some plants grow in water.
C. Some plants reproduce by spores.
D. Some plants do not make their own food.

(1) A and B only

(2) A and C only

(3) B and C only

(4) B and D only

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Four A, B, C, D

15. Gina planted ~~three~~ plants, A, B ~~and~~ C, in three similar pots. She placed the plants under different conditions as shown in the table below.

Plant	Air	Sunlight	Water
A	√	√	√
B	√		√
C	√		
D		√	√

Which plant will survive the longest?

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

16. Each of the following children said something about the stems of plants.

Anabel : They hold all the leaves of the plant.
Belinda : They anchor the plant firmly to the ground.
Candy : They carry water and mineral salts to other parts of the plant.

Who was/were correct?

(1) Anabel and Belinda only

(2) Anabel and Candy only

(3) Belinda and Candy only

(4) Candy only

17. Which of the following statements is correct about both mould and fern?

(1) Both reproduce by spores.
(2) Both are non-living things.
(3) Both have leaves.
(4) Both cannot make their own food.

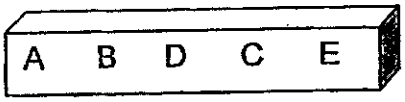
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18. Sally recorded the number of paper clips that can be attracted to different parts of a bar magnet.

Part	Number of paper clips attracted by magnet
A	6
B	6
C	3
D	2
E	1

Which one of the following diagrams shows the way in which Sally labelled her magnet?

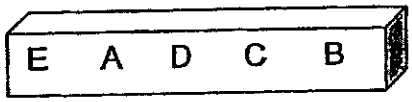
(1)



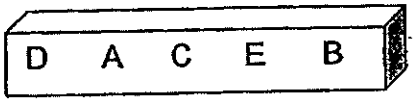
(2)



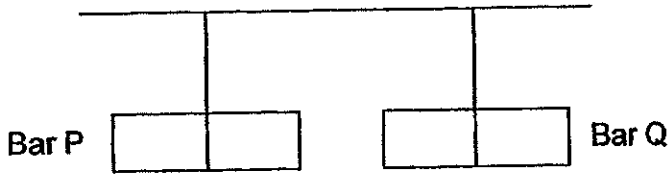
(3)



(4)



19. The diagram below shows what happens when two bars are hung near each other.



Which of the following statements can be true?

A: Both P and Q are magnets.
B: Both P and Q are magnetic materials but not magnets.
C: P is a non-magnetic material and Q is a magnet.
D: Both P and Q are non-magnetic materials.

(1) A and B only

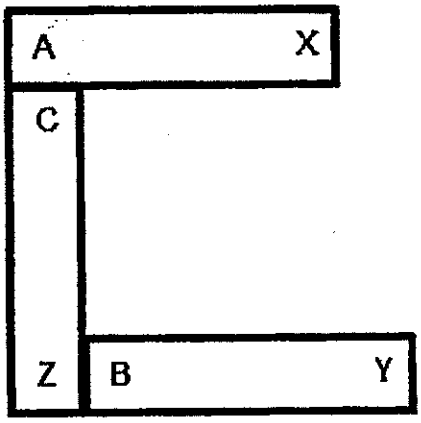
(2) B and D only

(3) A, B and C only

(4) B, C and D only

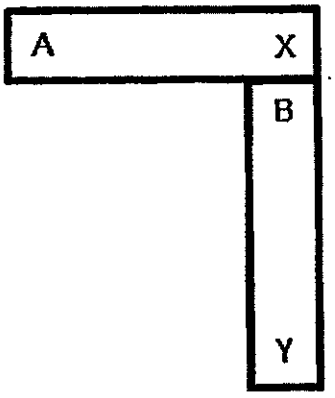
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20. Three magnets AX, BY and CZ are arranged as shown below.

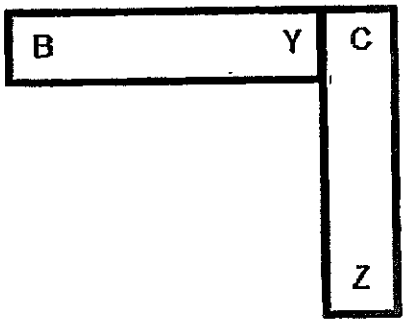


Which of the following arrangements shown below is also possible?

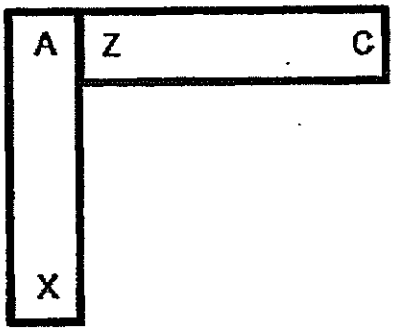
(1)



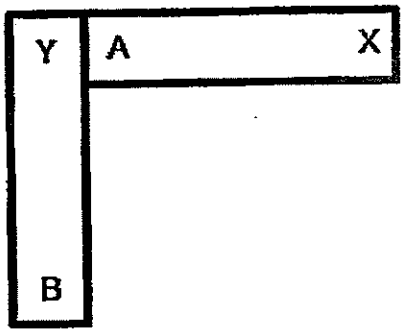
(3)



(2)



(4)



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SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2014

SCIENCE

PRIMARY THREE

NAME: _____ ( ) DATE: _____

CLASS: PRIMARY 3SY / C / G / SE / P

Booklet A		40
Booklet B		30
Total		70

Parent's Signature

_____

BOOKLET B

9 questions

30 marks

Total time for Booklets A & B: 1 h 25 min

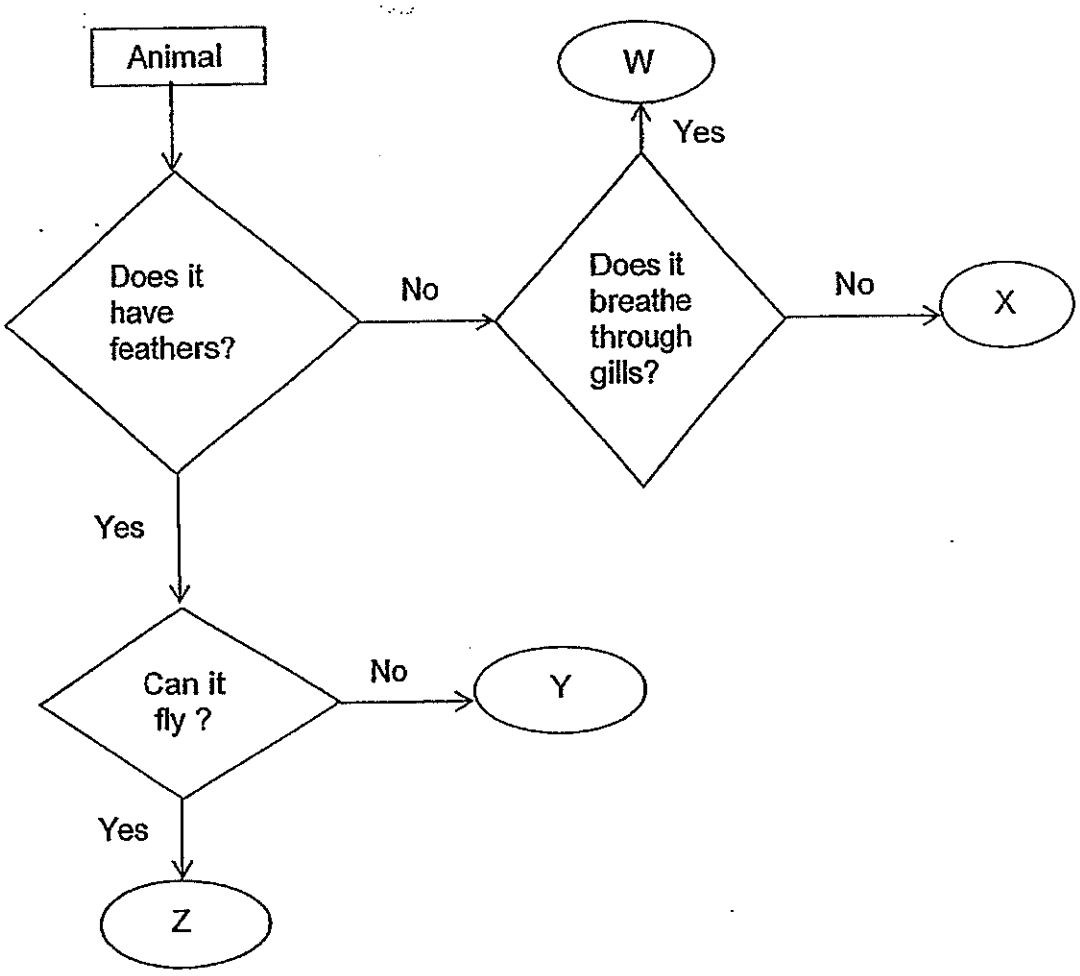
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Part II (30 marks)

21. Study the flowchart and answer the following questions.



Based on the flowchart above, answer the following questions:

(a) State one similarity and one difference between Animal W and Animal X [2]

Similarity : _____

_____

Difference: _____

_____

(b) Describe Animal Z. [1]

_____

3

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21(c) Look at the picture below.



BAT

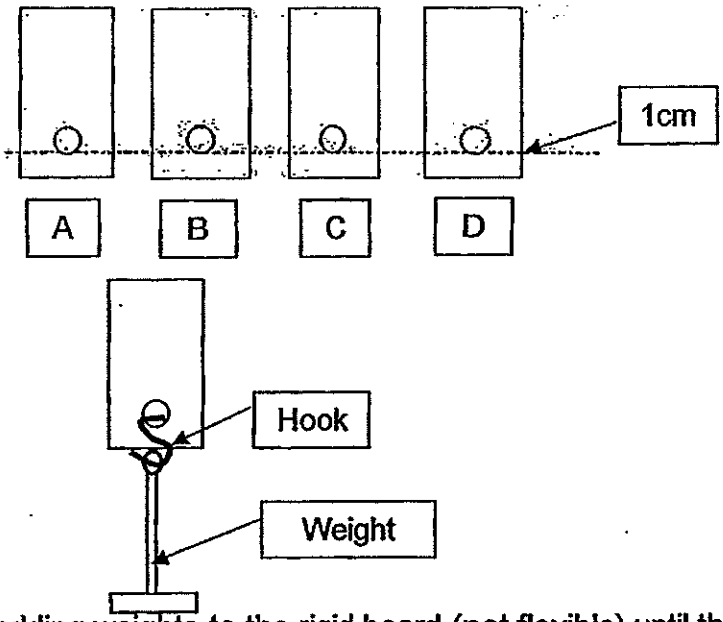
The bat is a mammal.

Write 'Yes' or 'No' to indicate which of the following characteristics tells you that the bat is a **mammal**. [3]

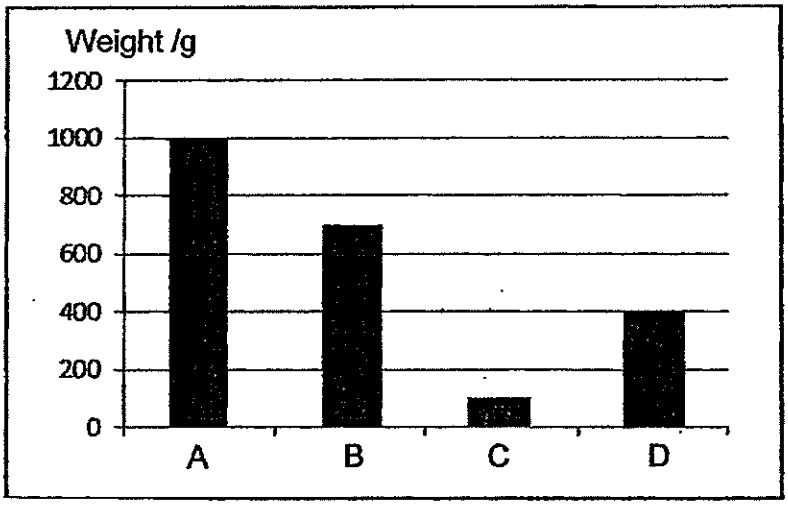
Characteristic	**Does it tell me it is a mammal ? Yes / No**
1) It has wings.	
2) It has hair as its outer covering.	
3) It lives on land.	
4) It feeds its young with milk.	
5) It can fly.	
6) It breathes with lungs.	

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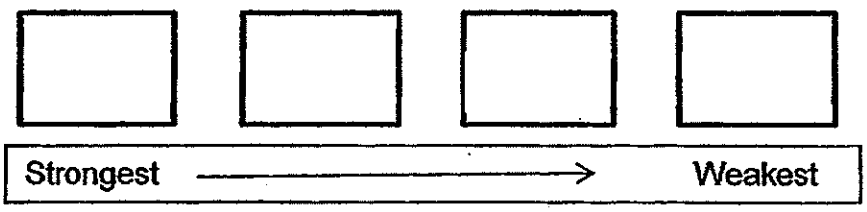
22. Felicia wanted to find out the strength of the four boards (A,B, C and D) and she set up an experiment as shown in the diagram below.



She kept on adding weights to the rigid board (not flexible) until the board broke. She repeated the experiment on 4 different boards, A, B, C and D, respectively. She recorded the maximum weight each board could hold before breaking.



(a) Using the information from the graph above, arrange the boards, A, B, C and D, in order, from the strongest to the weakest. [1]

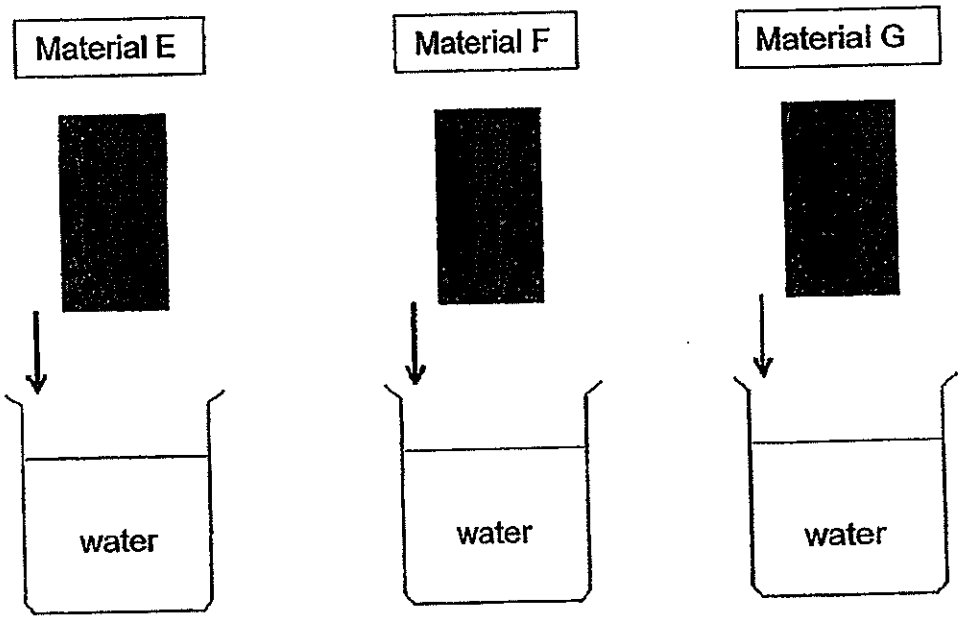


1

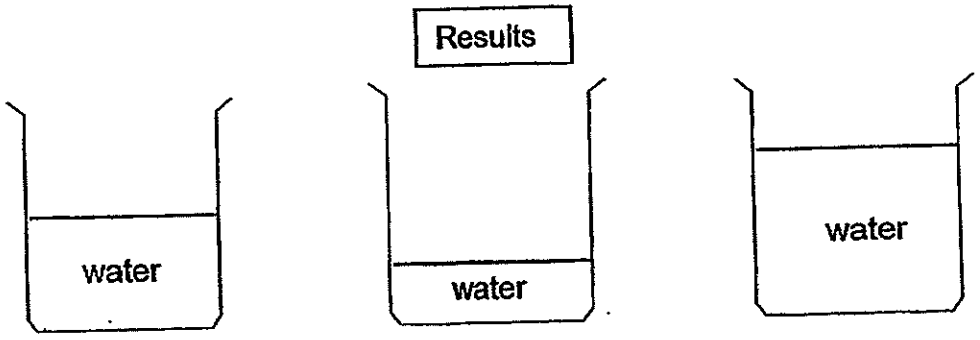
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22(b) Which material is most suitable to make a book shelf? Explain your answer. [2]

23. Three pieces of material, E, F and G, were put into 3 similar beakers of water as shown below. E, F and G are different materials.



After 10 minutes, material E, F and G, were removed from the beakers. The following shows the water level after E, F and G were removed.



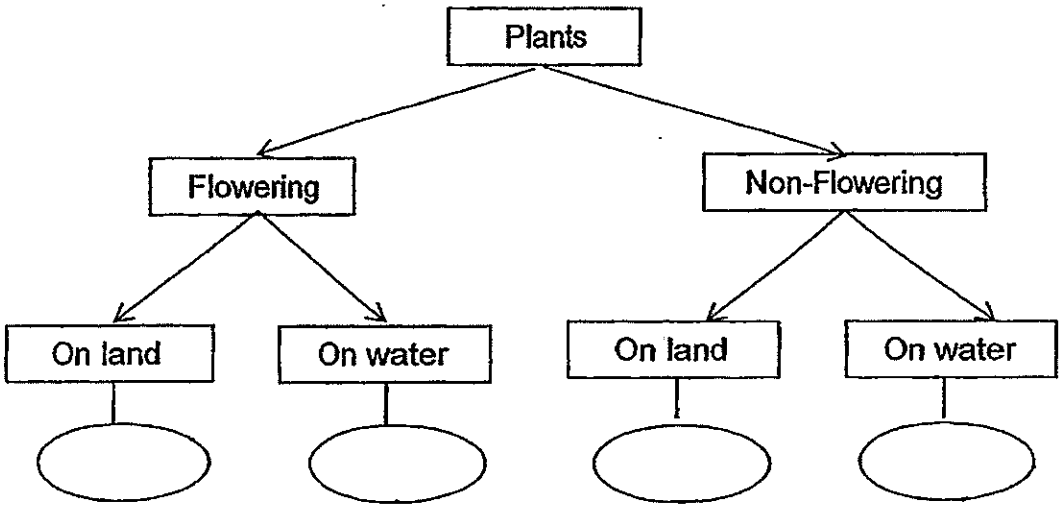
Based on the results shown above, which material (E, F or G) would be most suitable for making a raincoat? Explain your answer. [2]

4

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24. The table below shows the characteristics of four plants, A, B, C and D.

	Plant A	Plant B	Plant C	Plant D
Produces Flowers	√		√	
Grows on land	√	√		



(a) Based on the information given in the table above, <u>fill up the ovals</u> in the flowchart with the letters, A, B, C and D to show where the plants are grouped. [2]

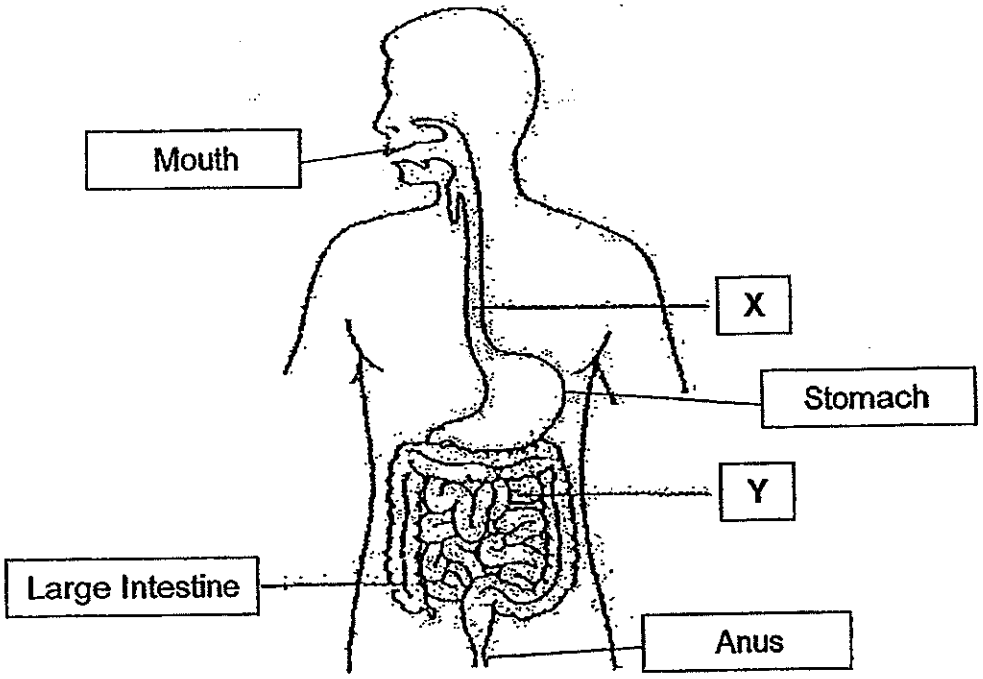
(b) Which plant, A, B, C or D is likely to be Bird's nest fern? [1]

Plant _____

3

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25. The diagram below shows the human digestive system.



a) Name the parts X and Y. [2]

X: _____

Y: _____

b) Match the parts of the Digestive System to its function. [2]

(i) Digestion begins here. In chewing, more saliva is produced to break down and soften the food. — Mouth

(ii) The undigested food is passed to this part. Water is absorbed and the undigested food becomes a solid waste. — Large Intestine

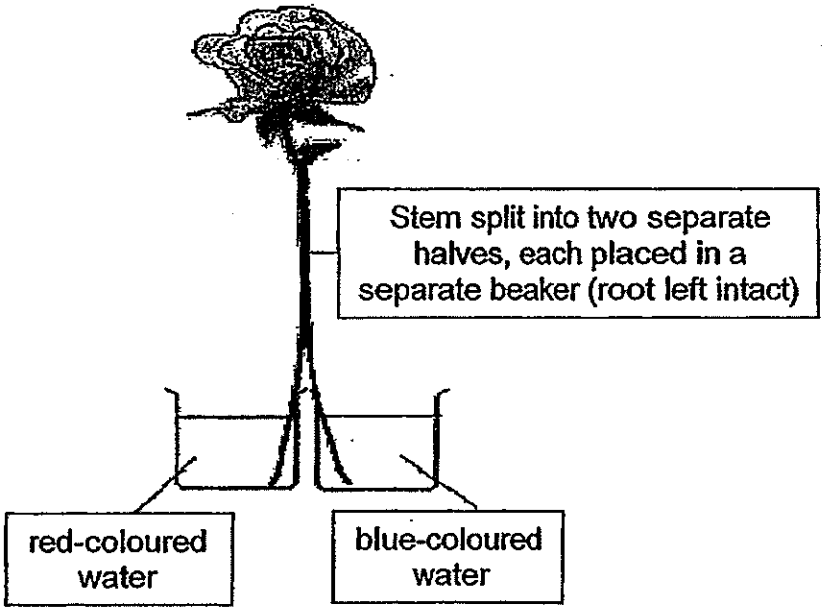
(iii) The digestive juices break down the food into simpler substances. This process takes about 3-4 hours. — Stomach

(iv) The faeces is stored in the rectum before it eventually leaves the body through this part. — Anus

4

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26. Mrs Tan set up the following experiment with a white flower as shown below.



(a) What would be observed in the flower <u>after a day</u>? [1]

Observations of the flower after a day	**Tick (√) only one**
i) Half the flower will turn blue and half will turn red.	
ii) Only half the flower will turn blue.	
iii) The flower will turn purplish.	

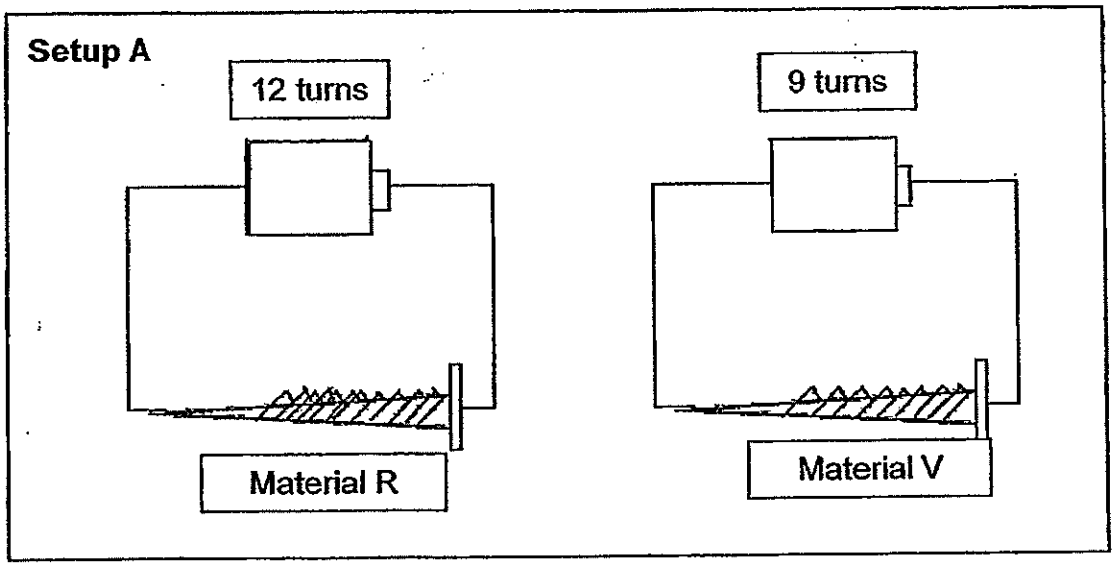
(b) Which part of the stem has enabled the flower to change colour? [1]

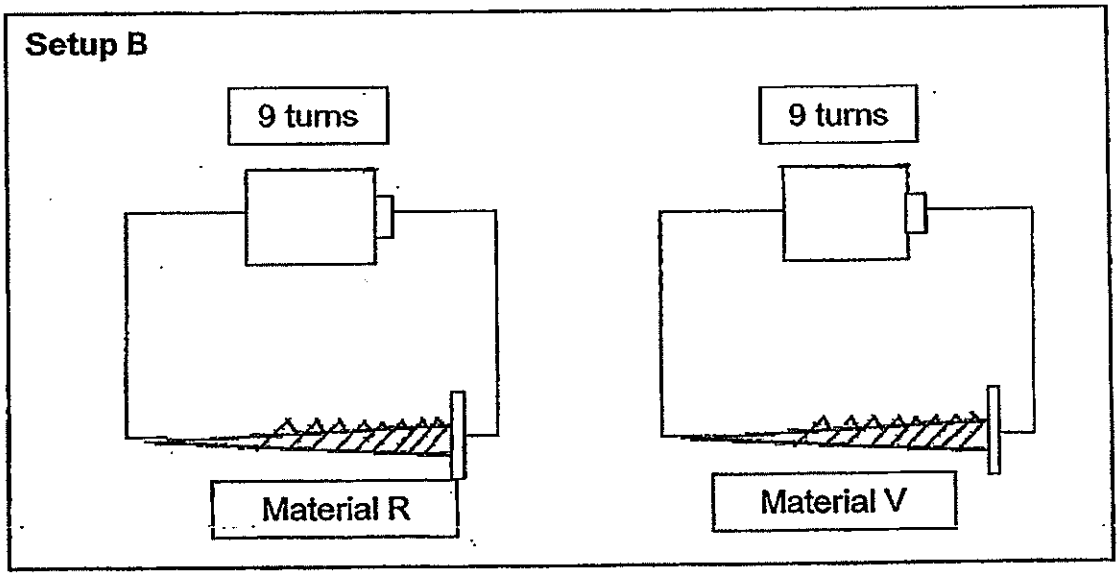
_____

2

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27. Krista set up Set-up A and Set-up B as shown below. She wanted to find out how an electromagnet made from different materials, R or V, would affect the number of paper clips it can attract.





Which setup, A or B, is a fair test? Explain your answer. [2]

2

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28. The table below shows the properties of 4 objects.

Objects	Is it attracted by the magnet?	Is it repelled by the magnet?
W	No	No
X	Yes	Yes
Y	Yes	Yes
Z	Yes	No

(a) Which objects are definitely magnets? [1]

_____

(b) Explain your answer in part (a). [2]

_____

(c) Objects W and Z are made of different materials. Suggest the material each of them is made of. [2]

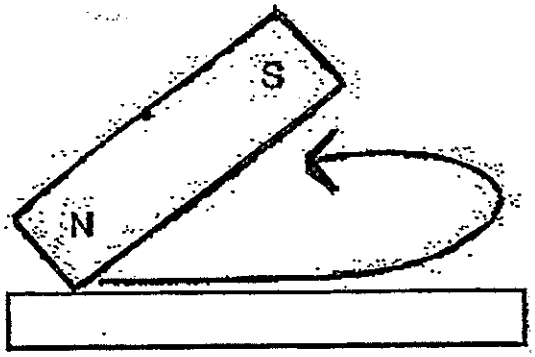
W : _____

Z : _____

5

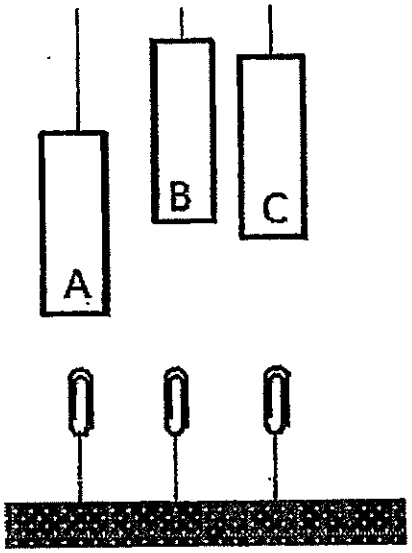
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29. Alisa used the stroking method to make three iron bars, A, B and C into magnets.



Iron bar

She set up an experiment using the three iron bars to test their strength. The diagram below shows the greatest distance each iron bar A, B and C can attract the paper clips from.



(a) Which iron bar has become the strongest magnet? [1]

_____

b) List two ways that you can make a stronger iron bar by stroking? [2]

(i)

(ii)

3

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Singapore Chinese Girls' School
Science SA2 2014

Section A

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

Section B

21) (a) Similarity: Both Animal W and Animal X do not have feathers.
Difference: Animal W breathes through gills but Animal X does not breathe through gills.

(b) Animal Z has feathers and can fly.

(c)

Characteristics	Does it tell me it's a mammal? Yes/No
1) It has wings.	No
2) It has hair as its outer covering.	Yes
3) It lives on land.	No
4) It feeds its young with milk.	Yes
5) It can fly.	No
6) It breathes with lungs	No

22) (a) A, B, D, C
(b) Board A. It is the strongest.

23) Material G. It will not absorb water and thus will not make the wearer wet.

24) (a) A, C, B, D
(b) Plant B

25) (a) X: gullet
Y: small intestine
(b) (i) Mouth
(ii) Large intestine
(iii) Stomach
(iv) Anus

26) (a)

Observations of the flower after a day	Tick only one
i) Half the flower will turn blue and half will turn red.	/
ii) Only half the flower will turn blue.	
iii) The flower will turn purplish.	

(b) The xylem enabled the flower to change colour.

27) Set-up B. In set-up B, both electromagnets have the same number of turns, but Set-up A doesn't.

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28) (a) Objects X and Y are definitely magnets.
(b) X and Y repel. Only magnets can be repelled by another magnet.
(c) W: Wood
Z: Cobalt

29) (a) B
(b) (i) Stroke the magnet more times.
(ii) Use a stronger magnet.

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