SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2009
PRIMARY 3
SCIENCE

Name: _____ ( ) Date: _____

Class: Primary 3 ~~SY / C~~ / ~~G~~ / ~~SE / P~~ Duration: 1 h 15 mins

Part I (40 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) in the Optical Answer Sheet provided.

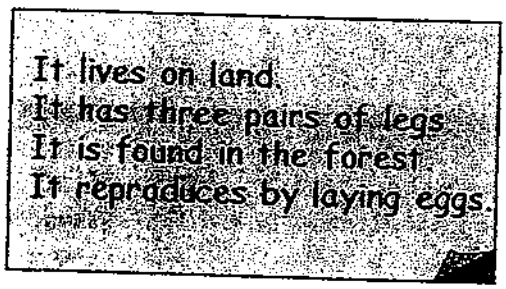
1. Which of the following characteristic is **true** for **all** mammals?

   1) It has legs.
   2) It lives on land.
   3) It feeds its young with milk.
   4) It can survive both on land and in water.

2. One similarity between birds and insects is that both groups _____.

   1) lay eggs
   2) have six legs
   3) are colourful
   4) have feathers

3. Aaron described the characteristics of a living thing in his Science Journal as shown below.

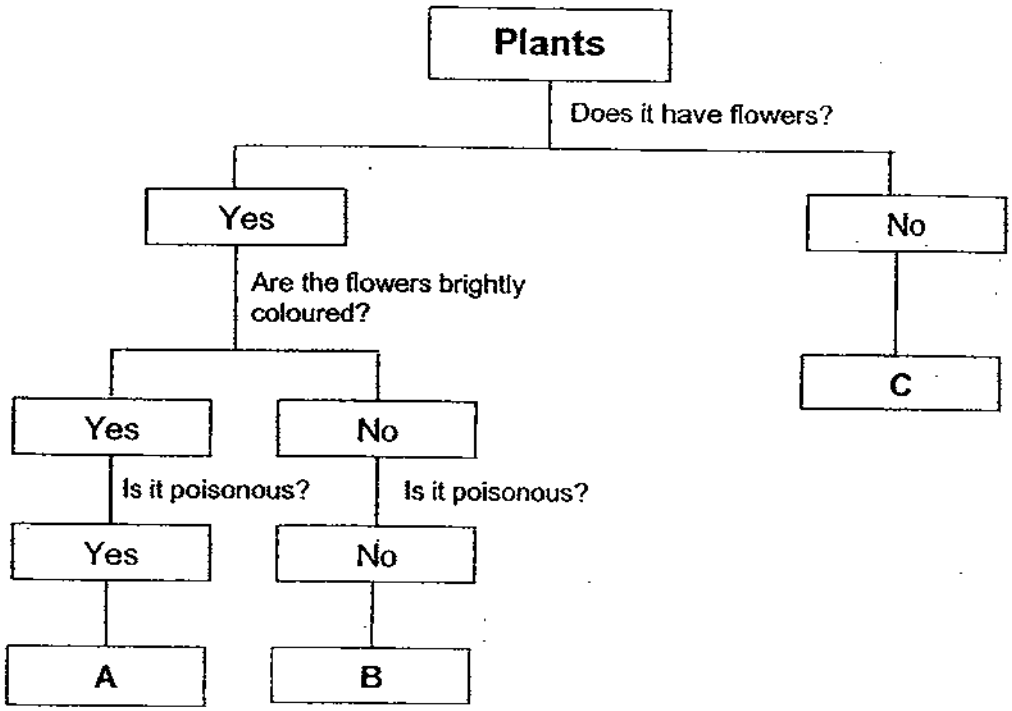


Which one of the following animal group does the animal Aaron was describing belong to?

1) Bird
2) Reptile
3) Insect
4) Mammal

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Study the classification chart below and answer **Questions 4 and 5.**



4. Joan wants to classify the rice plant according to the classification table. Which group should she place it in?

1) Group A
2) Group B
3) Group C
4) None of the groups.

5. Plants in Groups A and B have _____ which plants in Group C do not have.

1) fruits
2) roots
3) leaves
4) spores

6. Which of the following body parts are part of our digestive system?

A) Gullet
B) Nose
C) Small Intestines
D) Mouth
E) Windpipe
F) Lungs

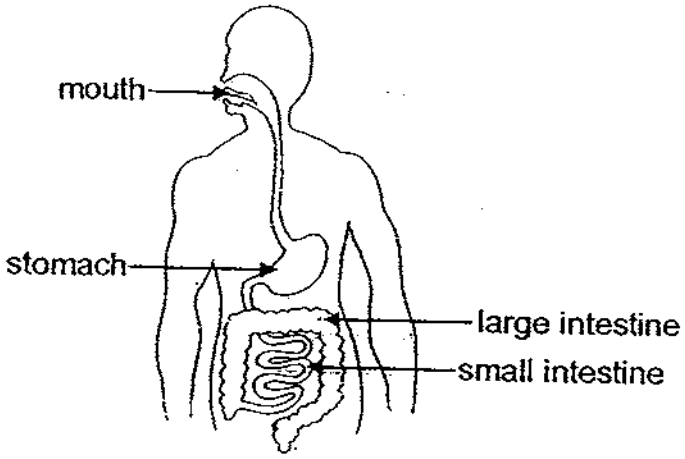
1) A and C only.
2) A, C and D only.
3) B, C and D only.
4) B, D , E and F only.

7. Micro-organisms can be seen using a _____.

1) mirror
2) microscope
3) plastic sheet
4) magnifying glass

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8. Which part of the digestive system does **not** produce digestive juice which breaks down food?

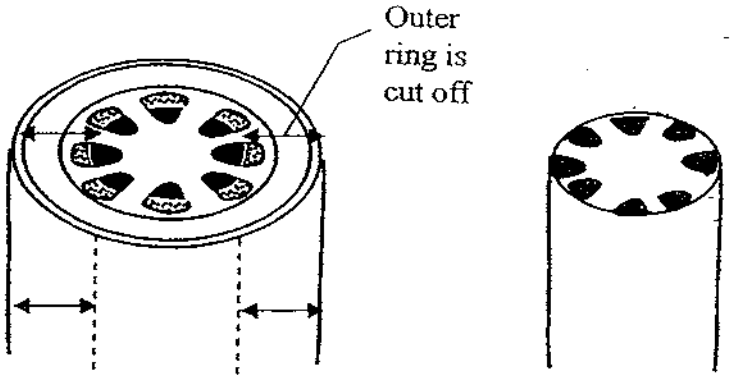


1) Mouth
2) Stomach
3) Large intestine
4) Small intestine

9. Some students made comments on how some parts of the body function to keep the body alive. Whose statement is correct?

1)	Alan	The lungs helps to pass the digested food to different parts of the body.
2)	Bonnie	The gullet helps break down food in the different parts of the body.
3)	Charlene	The small intestine helps transport carbon dioxide from different parts of the body.
4)	Daniel	The blood helps to pass the digested food to different part of the body.

10.



Before outer ring is cut. After outer ring is cut

The diagrams above show the cross-section of the stem of a plant.
If the outer ring of the plant is cut off in the way shown above, which of the following statements is correct?

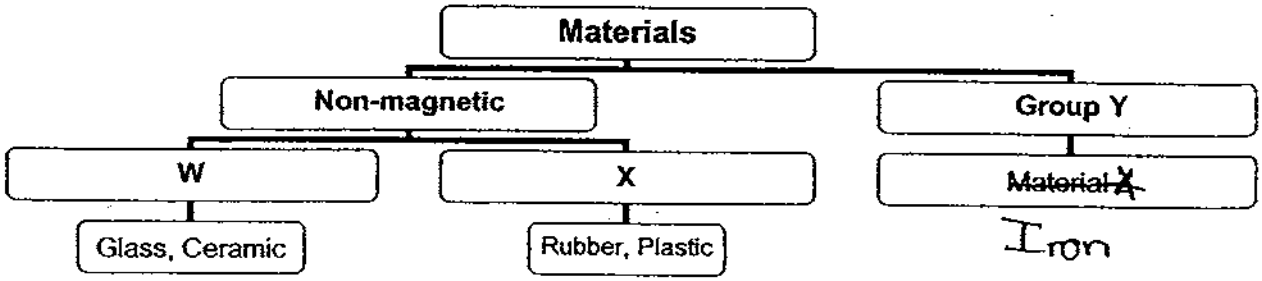
1) Water cannot be absorbed by the plant
2) Carbon dioxide cannot be taken in by the plant.
3) The leaves of the plant are not able to get water to make food.
4) The roots of the plants are not able to get food from the leaves.

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11. A compass needle which is allowed to turn freely would always be in line with the _____ directions.

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

Study the table below and answer **Question 12**.



12. Which of the following shows the correct headings for the groups?

	W	X	Group Y
1)	Soft materials	Hard materials	Magnetic materials
2)	Transparent materials	Opaque materials	Metals
3)	Breaks easily	Does not break easily	Magnetic materials
4)	White objects	Colourful objects	Magnets

Look at the table below and answer **Questions 13 and 14**.

Material	Strong	Waterproof	Flexible	Transparent
A	No	No	Yes	No
B	No	Yes	No	No
C	No	Yes	Yes	Yes
D	Yes	Yes	No	No

13. Mr Ong has to choose a suitable material for making safety helmets for construction workers. Safety helmets are worn by workers to protect their heads from falling objects.
Based on their properties, which material is the most suitable?

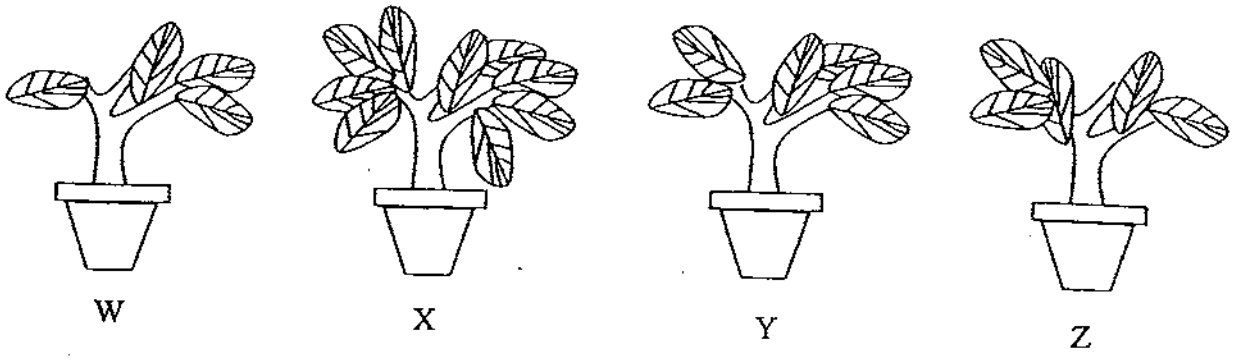
1) A
2) B
3) C
4) D

14. Mr Ong should choose the material for making safety helmets because the material is _____.

1) Strong
2) Waterproof
3) Flexible
4) Transparent

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15. Marlene placed 4 similar plants, W, X, Y and Z, in the garden. Only the number of leaves that the plants had was different.
She made sure that all the plants had the same amount of water and were exposed to the same amount of sunlight.



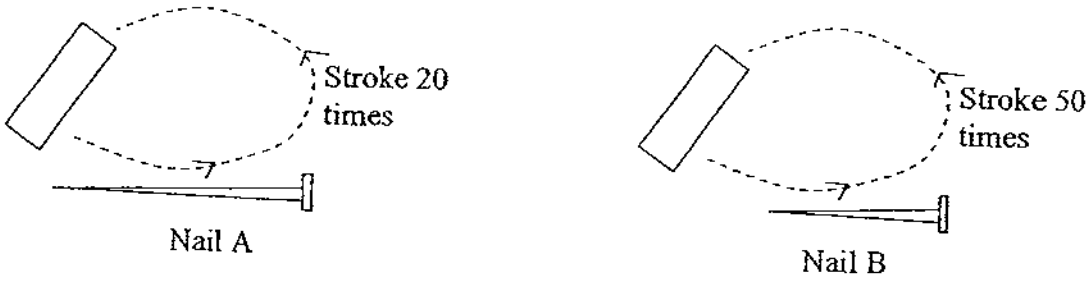
Arrange the plants in increasing order of food production, starting with the one producing the least amount of food.

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

16. Mrs Soh reminded her pupils to handle the magnets in the Science Lab carefully and not drop them on the floor. Which of the following would happen to the magnets if they are frequently dropped onto the floor?

1) The colour of the magnets would fade.
2) The magnets would change their shapes.
3) The magnetic strength of the magnets would become weaker.
4) The magnetic strength of the magnets would become stronger.

17. Tom wanted to find out if the number of strokes that a magnet went over an iron nail would affect the magnetic strength of the iron nail.
He used the same magnet to stroke 2 different nails of different sizes as shown below.



Tom's teacher told him he did not conduct a fair test.
What was wrong with his test?

1) He used nails of different sizes.
2) He used the same magnet for stroking.
3) He stroked the nails in different directions.
4) He stroked the nails different number of times.

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18. Halina had 4 toy cars, P, Q, R and S. She hid a bar magnet in one of the cars and asked her friends to guess which toy car had a magnet in it.
Her friends, Ali, Ben, Cathy and Dan, made the following comments. Based on their comments, who had guessed correctly?



1) Ali: Car P has the magnet because it is the heaviest.

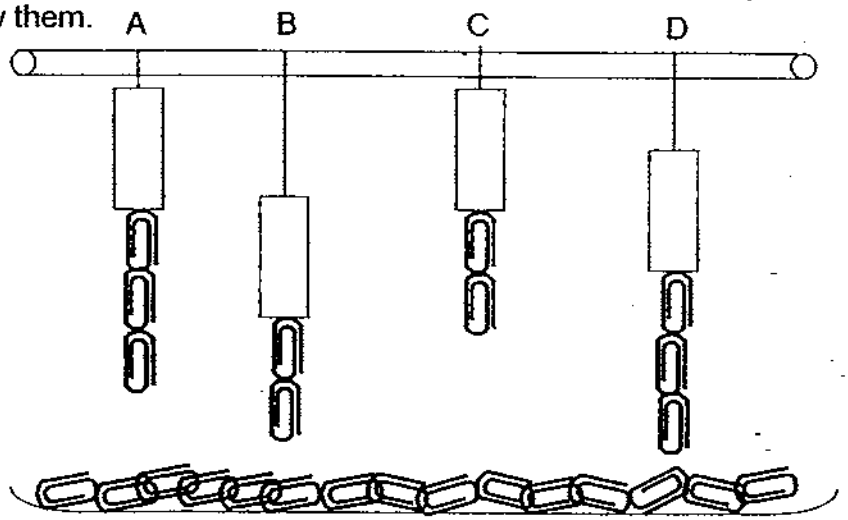
2) Ben: Car Q has the magnet because it is repelled by another magnet.

3) Cathy: Car R has the magnet because it can be attracted by another magnet.

4) Dan: Car S has the magnet because it can be attracted by one of the other toy cars.

Study the situation below and answer **Questions 19 and 20**.

Liming wanted to find out the strength of four magnets, A, B, C and D. He suspended each magnet from a string tied to a rod and placed a tray of pins below them.



19. Which of the statements below is correct?

1) Magnet A is stronger than Magnet D.
2) Magnet C is stronger than Magnet A.
3) Magnet B is stronger than Magnet D.
4) Magnet B is the stronger than Magnet C.

20. What is the likely number of paper clips Magnet A will attract if it has been heated over a candle flame for a minute?

1) 1
2) 5
3) 3
4) 4

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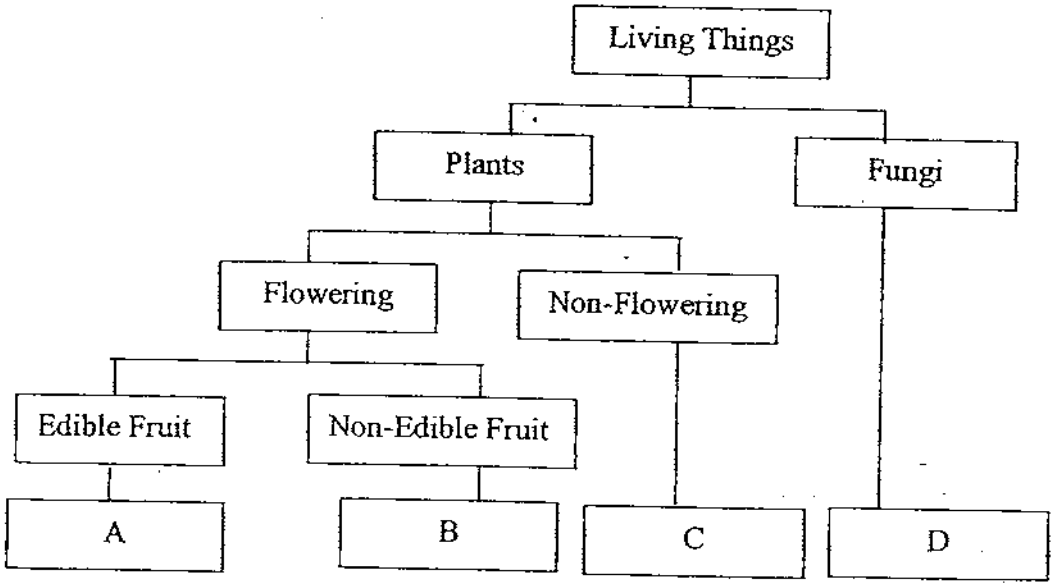
Components	Marks Obtained	Total Marks
Part I		40
Part II		20
Total		**60**

Parent's Signature:

_____

Part II (20 marks)
Answer all the following questions.

21. Study the classification chart below.



a) Write the letter **A**, **B**, **C** or **D** which represents each organism based on the above classification chart. (2m)

Plant	Letter
i) Mango Tree	
ii) Dragon Scale Fern	

b) Zi Long said that the plants, A, B and C, reproduce by producing seeds. Do you agree with him? Explain your answer. (2m)

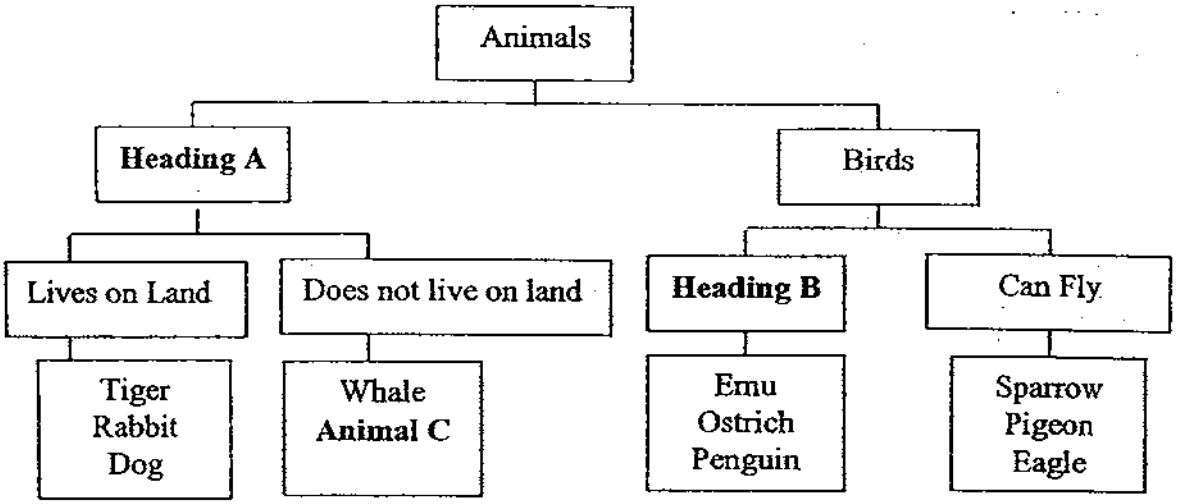
_____

_____

4

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22. Study the classification table below and answer the questions that follow.



(a) Based on the classification chart above, state the most suitable headings for A and B.

Heading A: _____ [1m]

Heading B: _____ [1m]

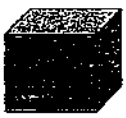
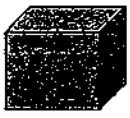
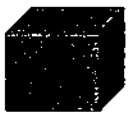
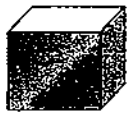
(b) Based on the classification chart above, state a possible answer for **Animal C**.

Animal C : _____ [1m]

(c) 'Cockroach' cannot fit into the classification chart at all.
Which animal grouping does it belong to? [1m]

_____

23. Xiao Ling has some cubes made of different materials. The cubes are of the same size. The materials are listed below:

Wood	Plastic	Iron	Steel	Silver
				

Read the following statements carefully. Write 'T' for every true statement and 'F' for every false statement. (2 m)

a)	Only one cube can be attracted by a magnet.	
b)	One cube can be repelled by a magnet.	
c)	3 cubes are made of metals	
d)	3 cubes are made of non-magnetic materials	

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3

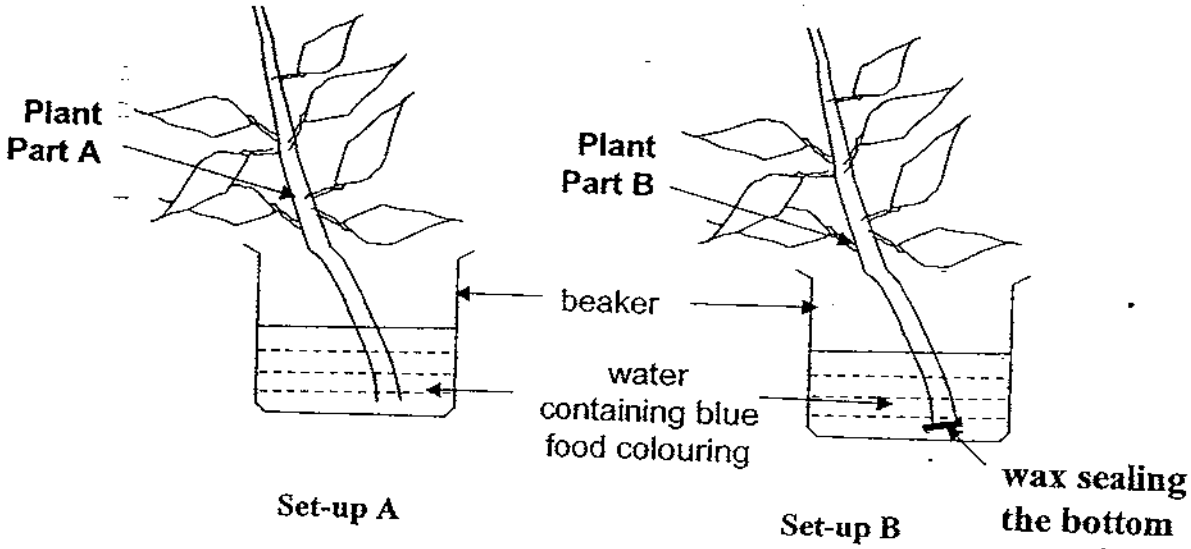
24. Nicholas conducted the following fair test with 4 similar lime plants. Each lime plant had one plant part completely removed. He gave the plants the same amount of water each day and placed them side by side in the garden.

Lime plants	Plant parts removed
A	All the fruits
B	All the flowers
C	All the roots

a) Which 2 lime plants are the **most** likely to stay healthy after one month? (1m)

b) State one plant which dies after one month. Explain how the removal of the plant part caused its death. (2 m)

25. Janice conducted an experiment by cutting 2 similar plant parts, A and B, and putting them into similar beakers of water containing blue food colouring. She covered the bottom of Plant Part B with wax.



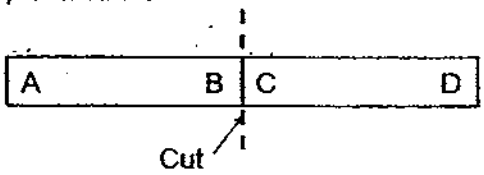
a) After two hours, in which set-up will the leaves turn blue? (1m)

b) Which plant part enables the leaves to turn blue? (1 m)

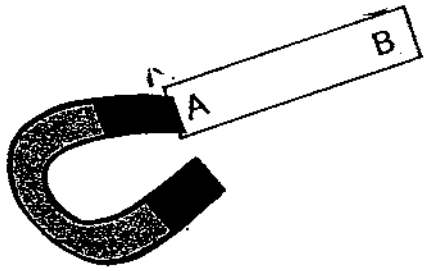
c) Why do the leaves in the other set-up remain green instead of turning blue? (1 m)

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26. Mandy cut a bar magnet into 2 parts according to the diagram below and labelled the poles A, B, C and D.



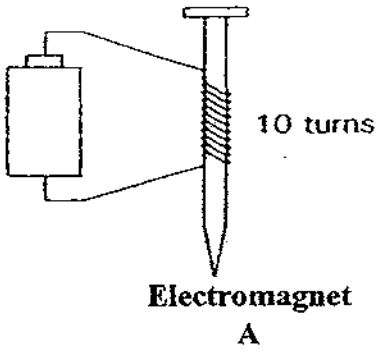
She took a horseshoe magnet and found out that Pole A is attracted to the South-seeking Pole of the horseshoe magnet.

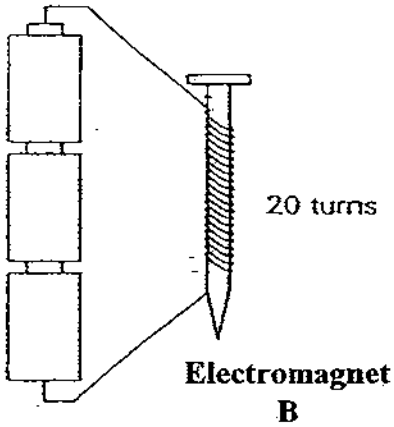


Fill in the table below with '**North**' or '**South**' to indicate the Poles of A, B, C and D. (2m)

Name	Pole
Pole A	
Pole B	
Pole C	
Pole D	

27. Farid has made 2 electromagnets using similar nails, batteries and wire.





Farid found that Electromagnet B can attract more paper clips than Electromagnet A.
Based only on what you can see from the set-ups, state two reasons why Electromagnet B is stronger than Electromagnet A.

Reason 1: _____ (1 m)

Reason 2: _____ (1 m)

- End of Paper -

4

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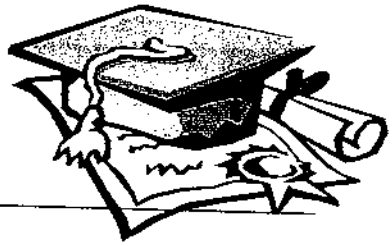


ANSWER SHEET

EXAM PAPER 2009

SCHOOL : SCGS PRIMARY
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA2



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

Q18	Q19	Q20
2	1	1

21)a)i)A ii)C
b)No. C is a non-flowering plant and it reproduces by spores.

22)a)A: mammals B: Cannot Fly
b)Dolphin.
c)Insects.

23)a)F b)F c)T d)T

24)a)Lime plants A and B.
b)Lime plant C. If the roots from the plant are removed, it is unable to absorb water and mineral salts from the soil.

25)a)A.
b)Xylem.
c)This is because there is a way sealing the bottom of Set-up B.

26)A: North B: South C: North D: South

27)1)There are more batteries added to it than electromagnet A.
2)The wire is coiled more times round the nail in electromagnet B.

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