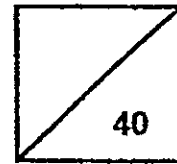




Rosyth School
Semestral Examination 1 for 2013
SCIENCE
Primary 3



Name: _____

Total
Marks:

Class: Pr 3 _____ Register No. _____ Duration: 1 h 30 min

Date: 15 May 2013 Parent's Signature: _____

BOOKLET A

Instructions to Pupils:

- 1. Do not open the booklets until you are told to do so.**
- 2. Follow all instructions carefully.**
- 3. This paper consists of 2 booklets, Booklet A and Booklet B.**
- 4. For questions 1 to 20 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS) provided using a 2B pencil.**
- 5. For questions 21 to 32, give your answers in the spaces given in Booklet B.**

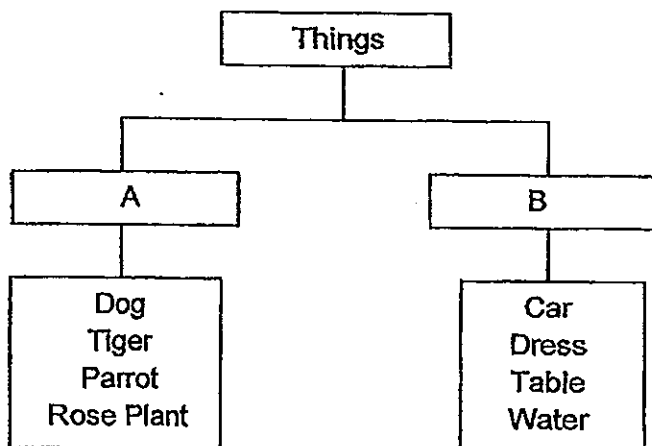
*** This booklet consists of 13 pages.**

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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) and shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Look at the classification chart below.



Which of the following are the correct headings for A and B?

	A	B
(1)	Living Things	Non-Living Things
(2)	Non-Living Things	Living Things
(3)	Things found on land	Things found in the sky
(4)	Things that can move	Things that cannot move

2. Which one of the following statements about fungi is true?

- (1) All fungi are edible.
- (2) Fungi make their own food.
- (3) Fungi feed on plants and animals.
- (4) Fungi reproduce by producing seeds.

3. Which of the following statements are characteristics of all living things?

- A: They grow.
- B: They reproduce.
- C: They make their own food.
- D: They move by themselves.

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

4. Alice compared a bird and an insect. Which of the following characteristics make a bird different from an insect?

- A: It lays eggs.
- B: It has wings.
- C: It has a beak.
- D: It has feathers.

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

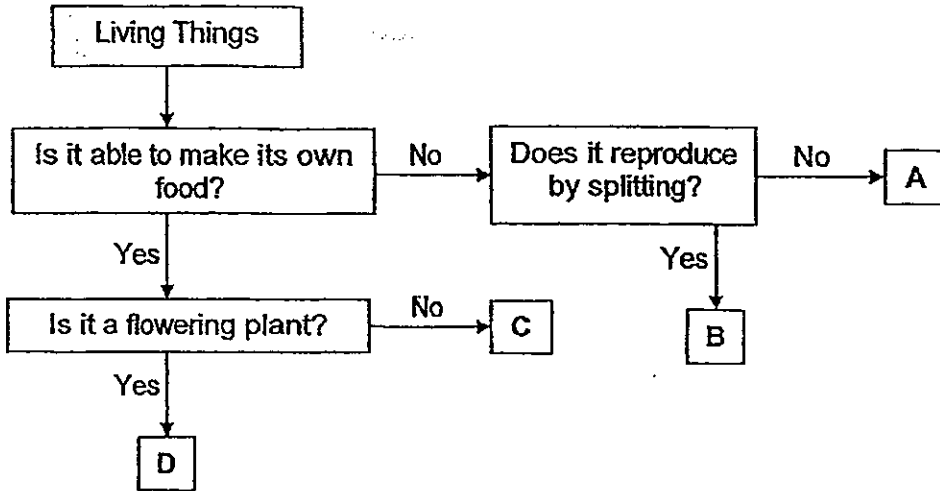
5. Study the classification table below.

Group X	Group Y	Group Z
Fishes	Birds	Mammals

How are the animals in Group X, Y and Z classified?

- (1) According to their movement
- (2) According to their outer covering
- (3) According to how they reproduce
- (4) According to their number of body parts

6. Study the flow chart below.



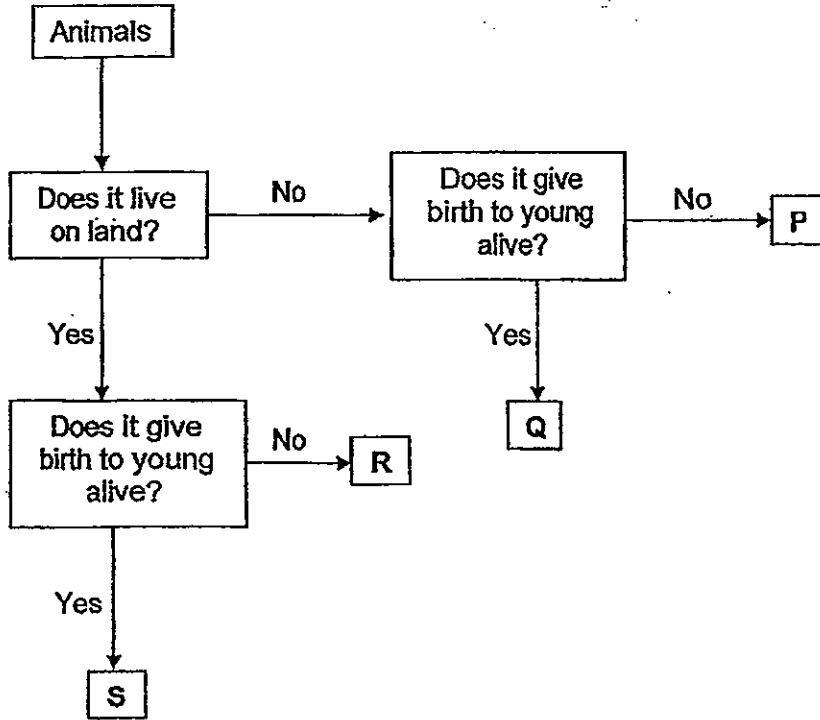
Which letter (A, B, C or D) best represents the living thing as shown below?



- (1) A
- (3) C

- (2) B
- (4) D

7. Study the flow chart below.



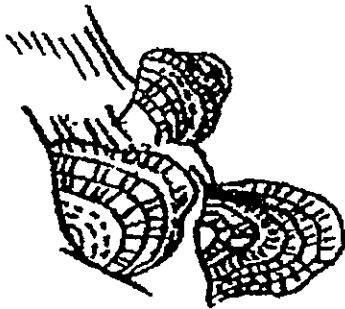
Which letter (P, Q, R or S) best represents the animal shown below?



Mosquito

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

8. Study the diagrams below.



Bracket fungi



Mimosa plant

The bracket fungi and mimosa plant have similar characteristics. How are they similar?

- (1) Both of them feed on other plants.
- (2) Both of them reproduce by spores.
- (3) Both of them need food to survive.
- (4) Both of them are non-flowering plants.

9. Lily found four animals (P, Q, R and S) and took care of them for a few months. The table below describes what she observed during that period. A tick (✓) represents a characteristic that the animal has.

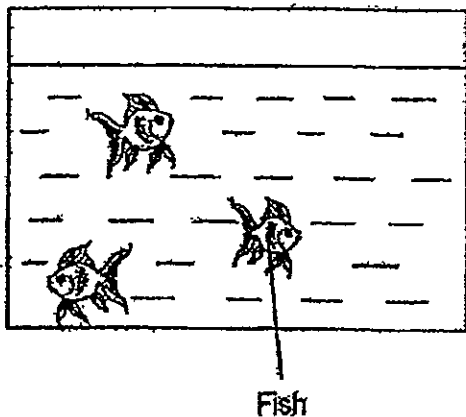
	Animal P	Animal Q	Animal R	Animal S
Can fly	x	✓	x	x
Lay eggs	✓	✓	x	✓
More than 2 legs	x	x	✓	✓

Which one of the following animals is most likely to be a fish?

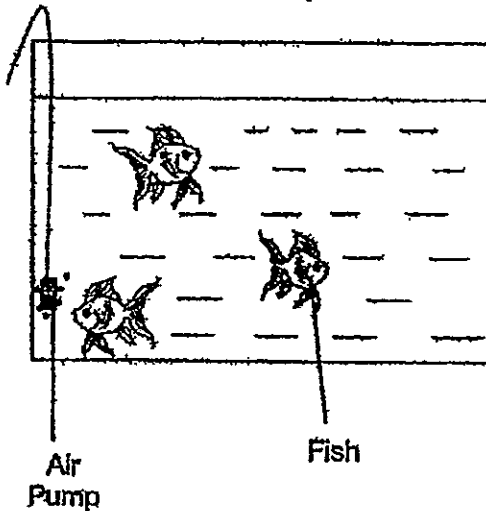
- (1) Animal P
- (2) Animal Q
- (3) Animal R
- (4) Animal S

10. John carried out an experiment with an equal number of fish in the set-ups as shown below. Each set-up was prepared under different conditions. In which set-up, A, B, C or D would the fish most likely die after one week?

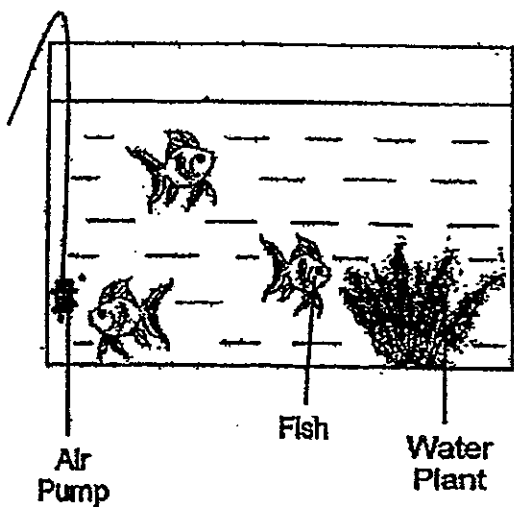
(1) Set-up A



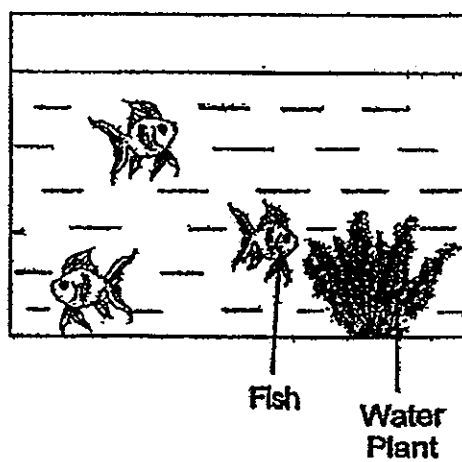
(2) Set-up B



(3) Set-up C



(4) Set-up D



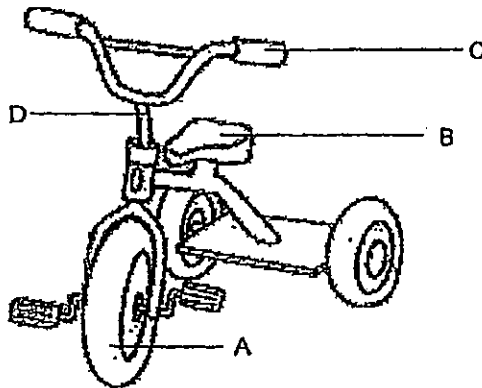
11. Mary described the properties of a material as shown below.

It is light.
It is waterproof.
It can be flexible or stiff.

Which of the following is most likely to be the material she has described?

- | | |
|------------|-------------|
| (1) Paper | (2) Wood |
| (3) Fabric | (4) Plastic |

12. The diagram below shows a tricycle. It is made of different materials.

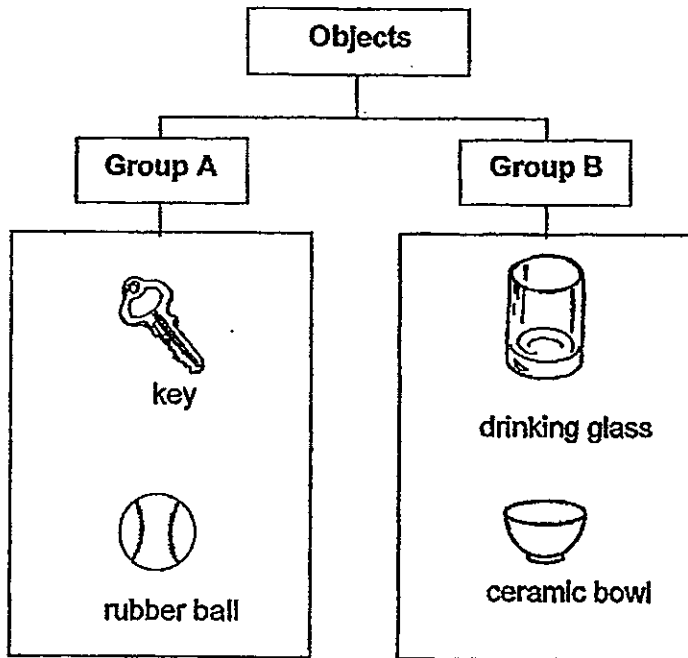


Which of the following best explain why the materials are chosen for parts A, B, C and D of the tricycle?

Part	Material	Reason
A	rubber	It is strong and waterproof.
B	plastic	It is hard and strong.
C	rubber	It is stiff.
D	metal	It is strong and flexible.

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

13. The classification diagram below shows how some objects are grouped into Group A and Group B.



Which of the following headings best describe the materials used to make the objects in Group A and Group B?

	Group A	Group B
(1)	Soft	Hard
(2)	Flexible	Stiff
(3)	Non-breakable	Breakable
(4)	Non-waterproof	Waterproof

14. Henry wanted to make a pair of spectacles with glass lens. His father advised him to make the spectacles with plastic lens instead of glass lens. In what way is plastic lens better than glass lens for making Henry's spectacles?

- (1) Plastic is waterproof.
- (2) Plastic can be bent easily.
- (3) Plastic does not break easily.
- (4) Plastic does not scratch easily.

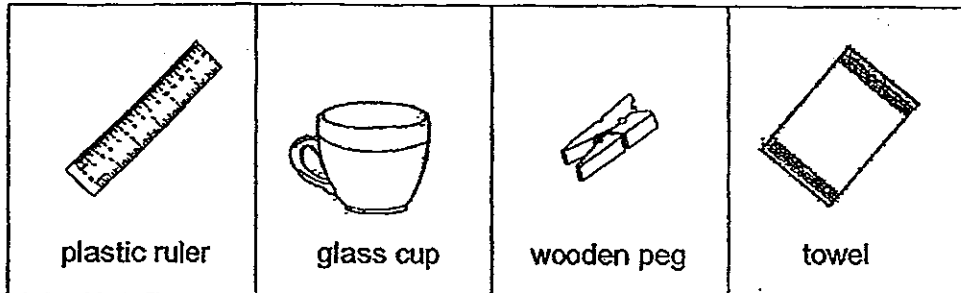
15. Weiling did a scratch test with four materials. She used each material to scratch one another and recorded her observations in the table below.

Materials	Observations
A	Made a scratch mark on D only
B	Made a scratch mark on A and D
C	Made a scratch mark on A, B and D
D	Did not make a scratch mark on any objects

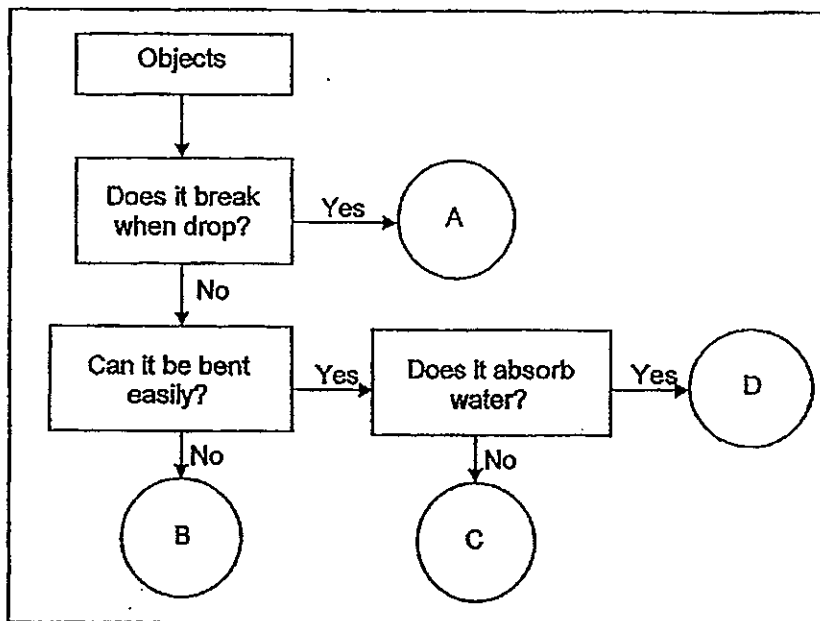
Based on the table, which of the following shows the correct order of the hardness of the materials, starting from the hardest material?

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

16. Alice has four objects: a plastic ruler, a glass cup, a wooden peg and a towel.



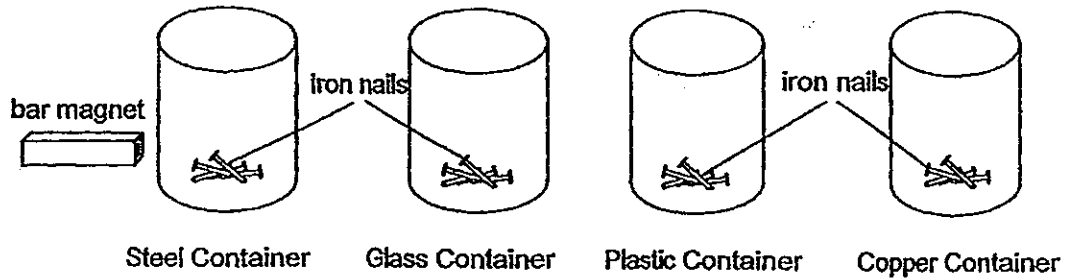
She used the flowchart shown below to sort the four objects into four boxes, A, B, C and D.



Which of the following best shows the object she placed in each of the four boxes A, B, C and D?

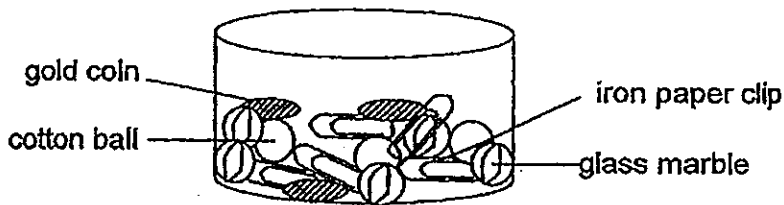
	A	B	C	D
(1)	plastic ruler	wooden peg	towel	glass cup
(2)	plastic ruler	towel	glass cup	wooden peg
(3)	glass cup	towel	wooden peg	plastic ruler
(4)	glass cup	wooden peg	plastic ruler	towel

17. A magnet was brought near four containers made of four different kinds of materials as shown in the diagram below.



In which container would the iron nails not be attracted to the magnet?

- (1) Steel Container (2) Glass Container
(3) Plastic Container (4) Copper Container
18. Sammy held a strong magnet over a container of gold coins, cotton balls, paper clips and marbles.



Which of the following objects would be attracted to the magnet?

- (1) coins only (2) paper clips only
(3) marbles and cotton balls only (4) paper clips and coins only

19. Amy and Bernard were able to use a strip of metal to hold a piece of paper against Whiteboard A. However, Cindy and Darren were not able to use the same strip of metal to hold the piece of paper against Whiteboard B.

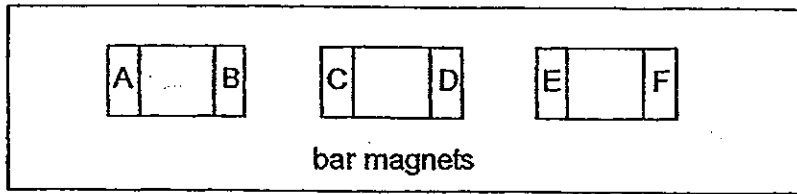
Amy, Bernard, Cindy and Darren each made a statement about their observations.

- Amy : The strip of metal is a magnet.
Bernard : The paper is a non-magnetic material.
Cindy : Whiteboard A is made of magnetic material.
Darren : Whiteboard B is made of non-magnetic material.

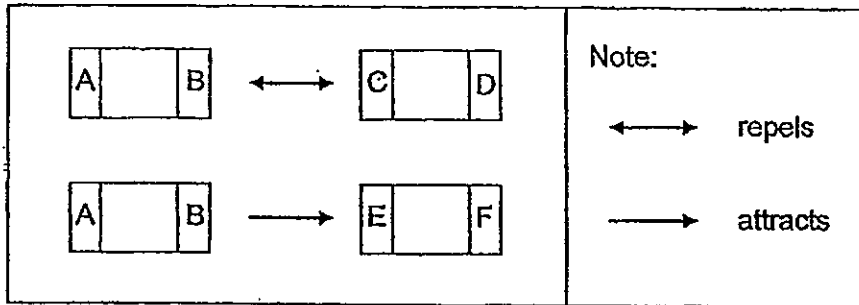
Whose statements are correct?

- (1) Amy, Cindy and Darren only
(2) Amy, Bernard and Darren only
(3) Bernard, Cindy and Darren only
(4) Amy, Bernard, Cindy and Darren

20. Dave has three bar magnets as shown below.

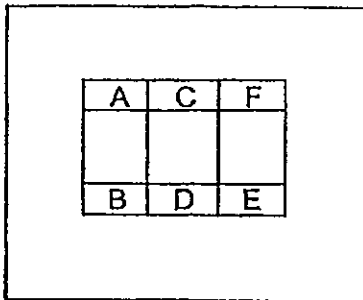


He puts two of them close to each other each time and notes his observations as shown below.

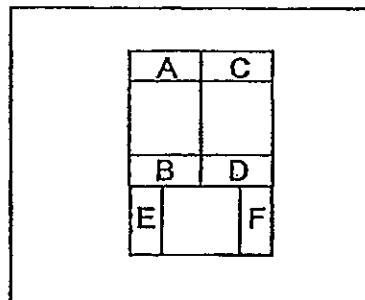


Which of the following would most likely happen when Dave tries to arrange the three magnets together?

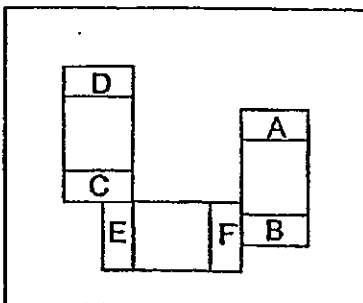
(1)



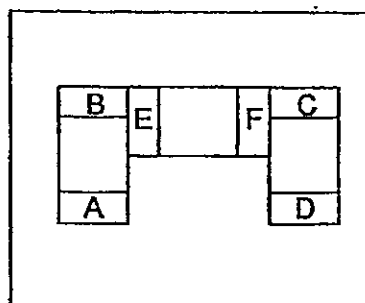
(2)



(3)



(4)

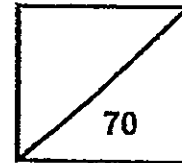


End of Part I



Rosyth School
Semestral Examination 1 for 2013
SCIENCE
Primary 3

Total
Marks:



Name: _____

Class: Pr 3 _____ Register No. _____ Duration: 1 h 30 min

Date: 15 May 2013 Parent's Signature: _____

BOOKLET B

Instructions to Pupils:

1. For questions 21 to 32, give your answers in the spaces given in this Booklet B.

	Maximum	Marks Obtained
Booklet A	40 marks	
Booklet B	30 marks	
Total	70 marks	

* This booklet consists of 12 pages.

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Part II (30 MARKS)

For questions 21 to 32, write your answers in this booklet.

21. Yijie bought a chick from a chicken farm. He measured the growth of the chick over 6 weeks and recorded the height of the chick in a table as shown below.

Time	Height (cm)
Week 1	7
Week 2	8
Week 3	10
Week 4	12
Week 5	15
Week 6	15

- (a) From the table above, what do you observe about the height of the chick from Week 1 to Week 6? (1m)

- (b) What is the characteristic of living things observed from Week 1 to Week 4? (1m)

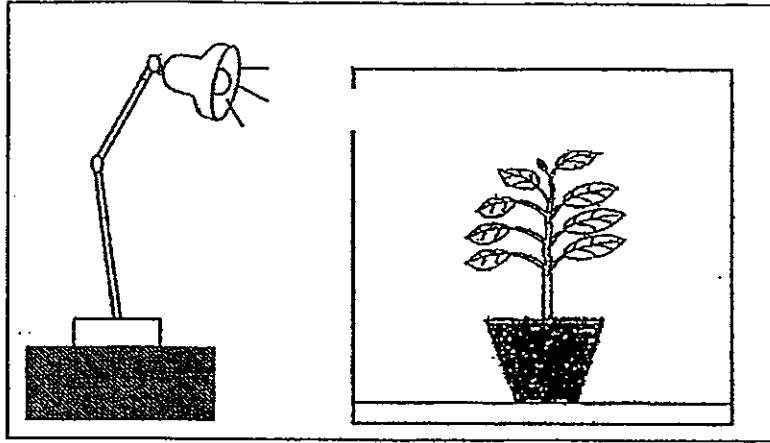
22. Yifang has four hibiscus plants, E, F, G and H. She placed the plants under different conditions as shown in the table below.

Plant	Conditions		
	Air	Sunlight	Water
E	√		√
F	√		
G	√	√	
H	√	√	√

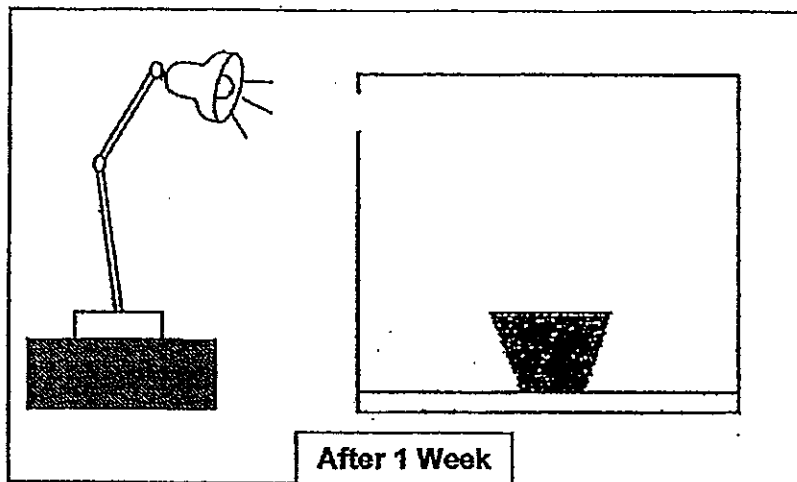
- (a) Which one (E, F, G or H) will survive the longest? Give a reason for your answer. (1m)

Question 22 continues on page 2

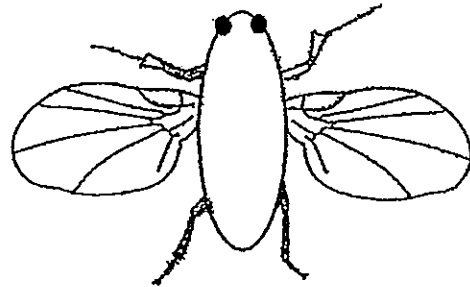
- (b) Yifang placed the pot of plant in a box with a tiny opening as shown below. It was placed near a lamp.



In the box below, draw what you think Yifang will observe about the plant after a week. (1m)

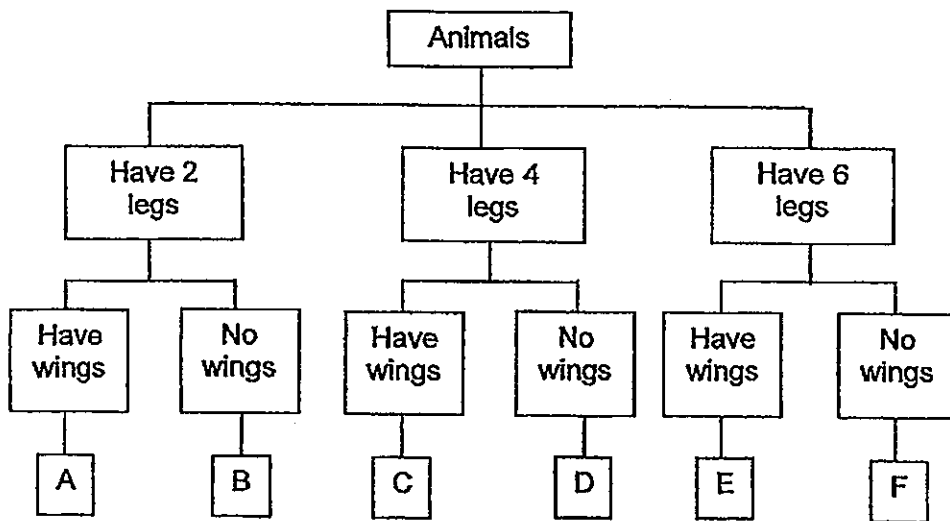


23. Siti drew an animal named 'Animal Y' as shown below.



Animal Y

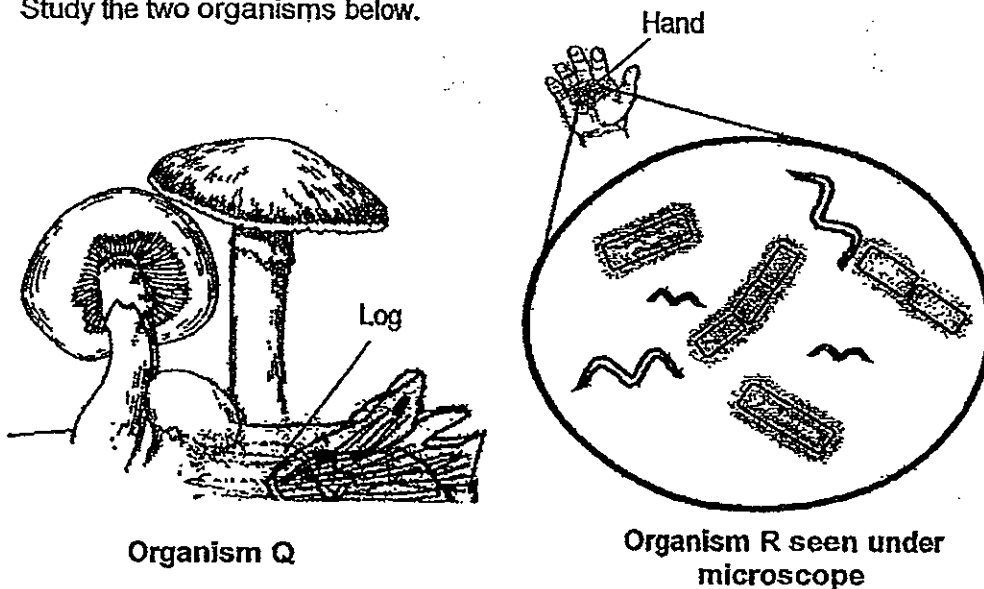
She wanted to classify Animal Y in the classification diagram below.



(a) Which letter (A, B, C, D, E or F) in the classification diagram best represents Animal Y? (1m)

(b) Which letter (A, B, C, D, E or F) in the classification diagram best represents a bird? Explain why. (1m)

24. Study the two organisms below.



(a) In which group of living things do Organism Q and R belong to? (2m)

Organism Q : _____

Organism R : _____

(b) Based on the above diagram only, state one difference between Organism Q and R (1m)

25. Study the classification table below.

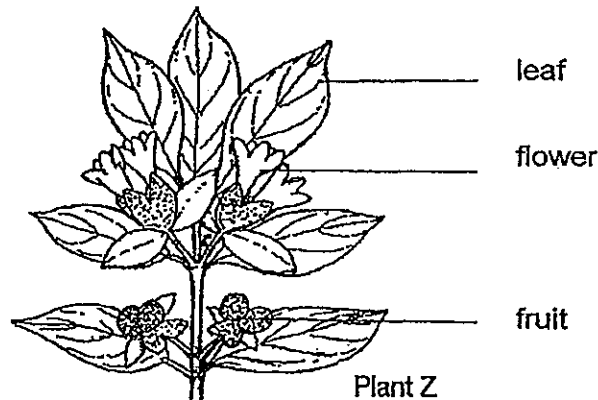
Living Things	
Group A	Group B
Sunflower plant	Fern
Rose plant	Bread mould

- (a) Give a suitable heading for Group A and Group B with regard to how they reproduce. (2m)

Group A: _____

Group B: _____

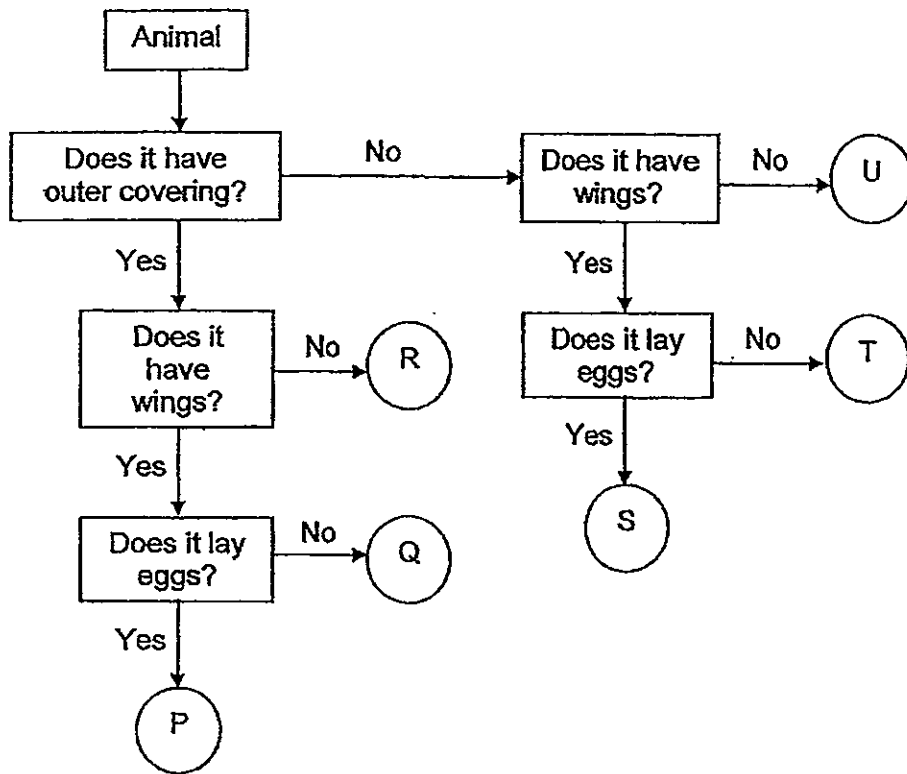
The diagram below shows Plant Z.



Syafiq said that it must be placed in Group A.

- (b) What did he observe on Plant Z that caused him to place Plant Z in Group A? (1m)

26. The flowchart below gives the characteristics of some animals.

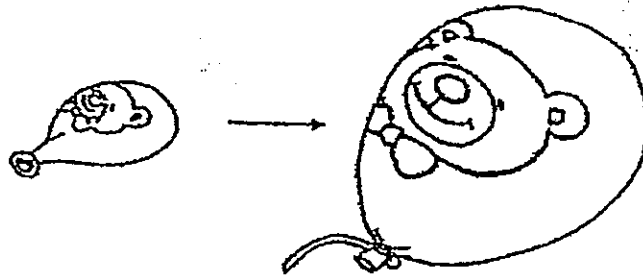


(a) State all the characteristics of Animal R. (1m)

(b) State two similarities between Animal P and Animal S. (2m)

(c) In which animal group do U and T belong to? Support your choice. (1m)

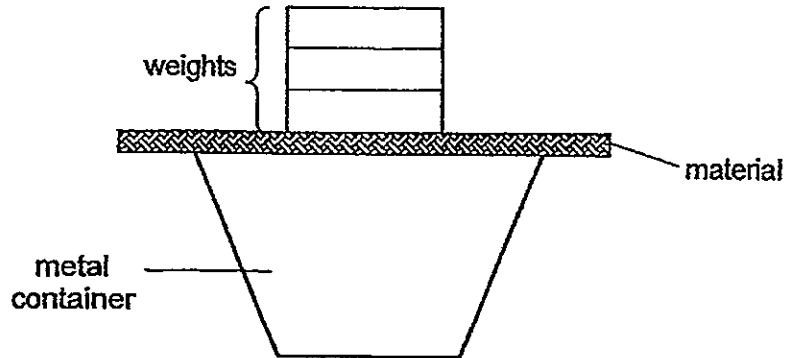
27. Melissa took a balloon and blew air into it. She drew her observation as shown in the diagram below.



- (a) Describe what has happened to the balloon when air was blown into it. (1m)

- (b) What does her observation tell about the property of the material used to make the balloon? (1m)

28. Terrence carried out an experiment with three pieces of materials, W, X and Y. He placed each piece of material over a metal container. Then, he added some weights over it as shown in the diagram below. He continued adding the weights until the piece of material broke.



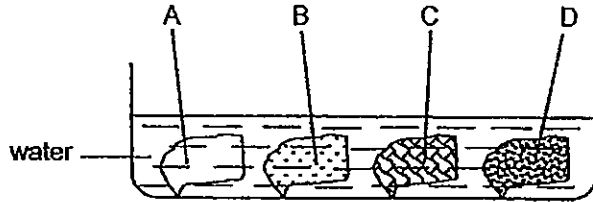
The table below shows the maximum weights taken to break each piece of material.

Materials	Weights it could hold before it broke
W	20kg
X	5kg
Y	10kg

- (a) Arrange the materials (W, X and Y) according to their strength from the strongest to the weakest. (1m)

- (b) Based on the information given in the table above, which material, W, X or Y, is most suitable for making a stool? Support your answer. (1m)

29. Simon took four pieces of materials, A, B, C and D, of similar sizes and weighed them. He then placed them in a tank of water as shown in the diagram below.



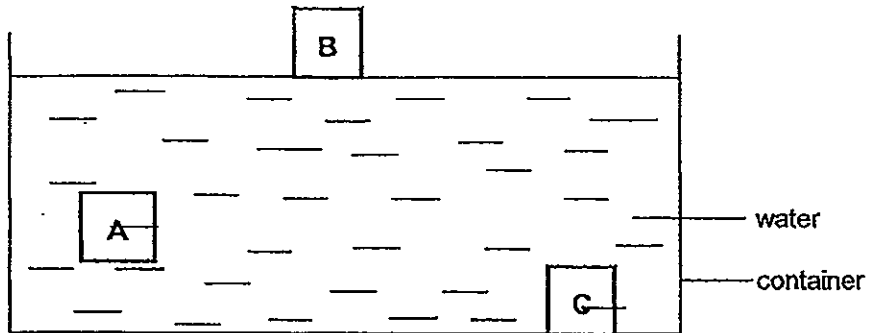
After ten minutes, he removed the materials from the water and weighed them again. He recorded the mass of the materials as shown in the table below.

Material	A	B	C	D
Mass of material before the experiment	3	5	2	3
Mass of material after the experiment	5	15	3	6

- (a) Which property of the material was tested in the above experiment? (1m)

- (b) Based on the information in the table, which material (A, B, C or D) is most suitable for making a face towel? Support your choice. (1m)

30. Lesley put three objects, A, B and C, into a container of water. The objects are of the same size. The diagram below shows his observation.



- (a) Classify all the objects (A, B and C) into two groups. Write the letters in the table below. (1m)

Sinks in Water	Floats in Water

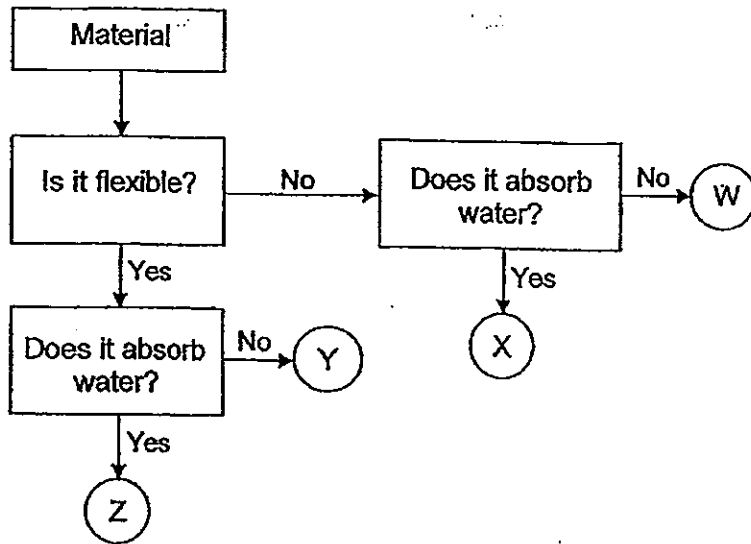
Next, Lesley put Object D into the container of water. Object D is the same size as A, B and C but it is made of a lighter material than A and C and a heavier material than B.



Object D

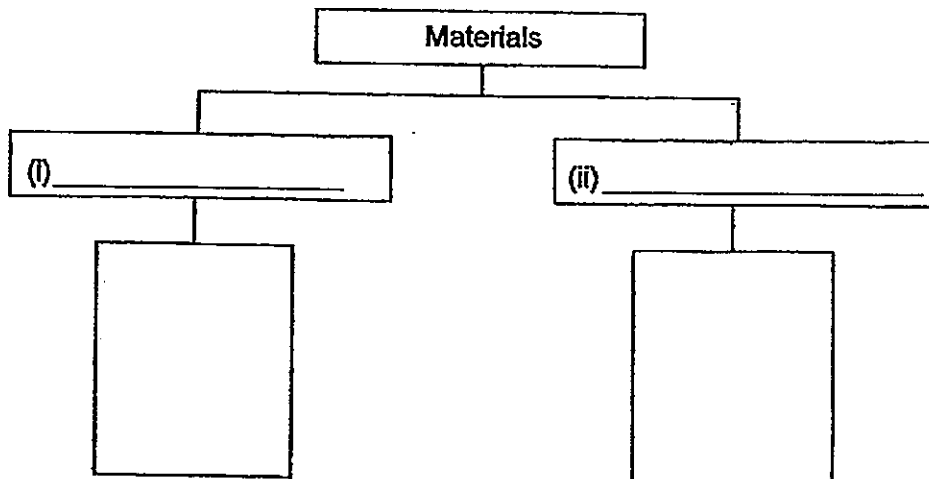
- (b) Draw Object D in the container of water above. (1m)
- (c) Lesley said that object C is made of metal. Do you agree with him? Support your answer with a reason. (1m)

31. Study the flowchart below.

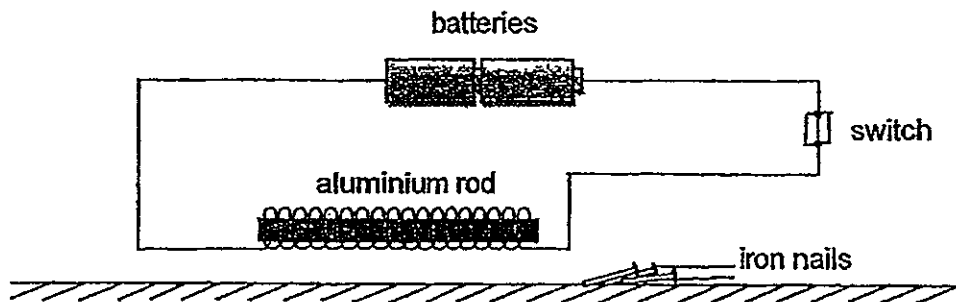


- (a) Material Y is used to make umbrellas. Based on the flowchart, state the properties of Material Y that make it suitable. (1m)

- (b) Choose a property from the flowchart above and write them as headings in the classification chart below, (i) and (ii). Then classify W, X, Y and Z into the two groups in the classification chart. (2m)



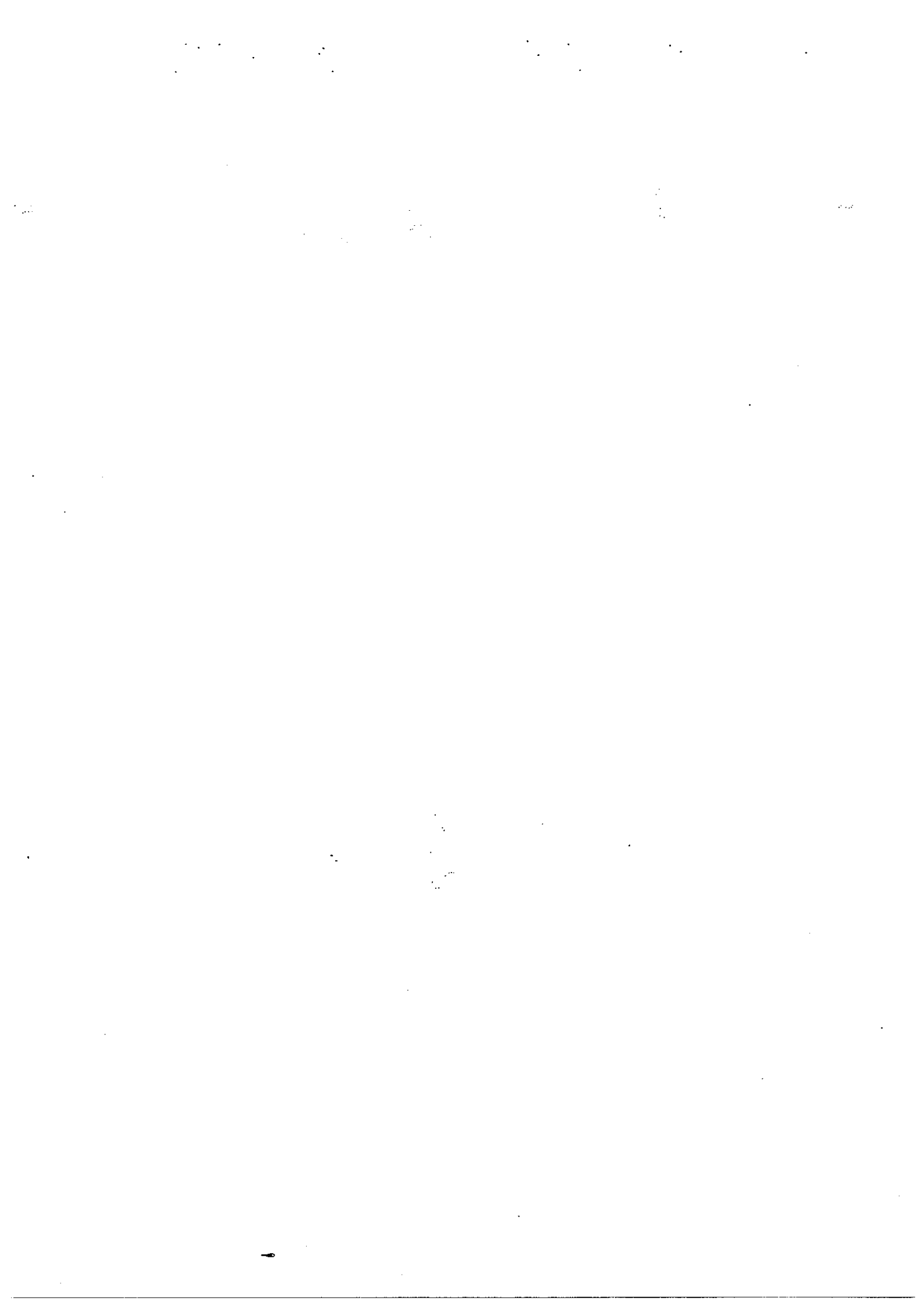
32. Linda wanted to make an electromagnet. She set up the experiment as shown below using two new batteries, a switch, a wire and an aluminium rod. She put some iron nails near the rod.



- (a) When Linda turned on the switch, she observed that the iron nails were not attracted to the rod. Explain her observation. (1m)

- (b) What must she do in the above set-up to enable the iron nails to be attracted to the rod? (1m)

End of Paper



ANSWER SHEET

EXAM PAPER 2013

SCHOOL : ROSYTH PRIMARY SCHOOL

SUBJECT : PRIMARY 3 SCIENCE

TERM : SA1

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

Q18	Q19	Q20
2	4	2

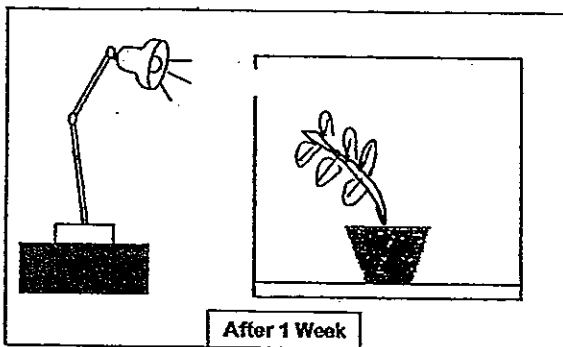
Section B

Q21

- a) From week 1 to week 5 the height of the chick increased but from week 5 to 6 the height remained the same
b) Living things grow

Q22

- a) H will survive the longest because it has air, sunlight and water to stay alive
b)



Q23

- a) C best represents animal Y
- b) A, birds have 2 legs and a pair of wings

Q24

- a) Q: Fungi
R: Bacteria
- b) Organism R can be seen under the microscope but organisms can be seen with naked eye

Q25

- a) A: Reproduce by seeds
B: Reproduce by spores
- b) He observed that it had flowers and Group A also had flowers so they both are flowering plants

Q26

- a) Animal R has outer covering but does not have wings
- b) Both animal P and S lay eggs and have wings
- c) It belongs in the Insect group because they do not have outer covering.

Q27

- a) It expanded from a small balloon to a big balloon
- b) The property is flexibility

Q28

- a) W, Y, X
- b) W is able to hold the heaviest material as it is the strongest material

Q29

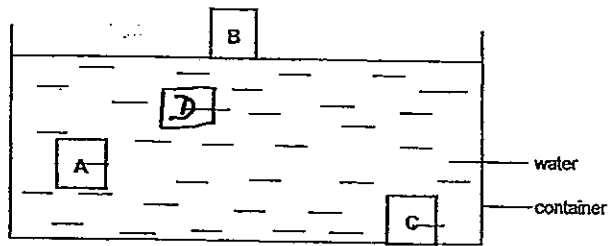
- a) Absorbency was tested
- b) B has absorbed the most amount of water

Q30

a)

Sinks in water	Floats in water
A	B
C	

b)



c) Yes, metal is heavier than water it will sink to the bottom of the container

Q31

a) The properties of Material Y are it is flexible and does not absorb water.

b) i) can absorb – X, Z

ii) cannot absorb – W, Y

Q32

a) Aluminium is a non-magnetic material

b) She can change the aluminium rod to a iron or steel rod.

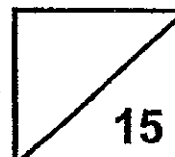




Rosyth School
Second Topical Test for 2013
SCIENCE
Primary 3

Name: _____

Total
Marks:



Class: Pr 3 _____

Register No. _____

Duration: 30 minutes

Date: 22 August 2013

Parent's Signature: _____

Instructions to Pupils:

1. Do not open the booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 parts, Part I and Part II.
4. For questions 1 to 10, write the correct answer in the brackets provided.
5. For questions 11 and 12, give your answers in the spaces provided in Part II.

	Maximum	Marks Obtained
Part I	10 marks	
Part II	5 marks	
Total	15 marks	

* This booklet consists of 7 pages.

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