CATHOLIC HIGH SCHOOL
SEMESTRAL ASSESSMENT 1
2014
PRIMARY THREE

SCIENCE

BOOKLET A

Name: _____ ( )

Class: Primary 3 - _____

Date: 16 May 2014

20 questions

40 marks

Total Time for Booklets A and B: 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 12 printed pages, excluding cover page.

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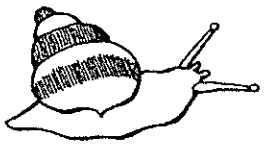
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Booklet A (20 × 2 marks)

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 your answer on the Optical Answer Sheet.

(40 marks)

1 Andy touched a snail that he saw in his garden.



snail



Andy's hand

The snail pulled its head into the shell.
What does this tell him about living things?

(1) Livings things grow.

(2) Living things reproduce.

(3) Living things respond to changes.

(4) Living things need air, food and water.

2 Which of the following shows the characteristics of living things?

A Water flowing in the river.

B A giraffe gives birth to its young alive.

C A balloon becomes bigger when it is blown.

D A kitten changing in its appearance and size over time.

(1) A and B only

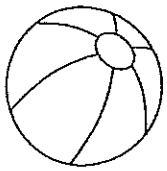
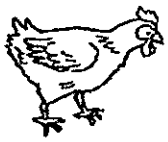
(2) B and D only

(3) C and D only

(4) A, B and C only

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3 Some things are classified into 3 different groups as shown.

Group E	Group F	Group G
 	 	 

Which of the following groups need air, food and water to stay alive?

(1) E only

(2) E and F only

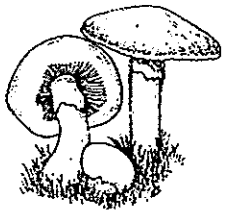
(3) E and G only

(4) F and G only

4 The table below provides information about 4 different living things, V, W, X and Y.

Living thing	Does it make food?	Does it reproduce by spores?
V	Yes	Yes
W	No	Yes
X	No	No
Y	Yes	No

Look at the picture below.



Based on the information provided above, which one of the following best represents the living thing shown in the picture?

(1) V

(2) W

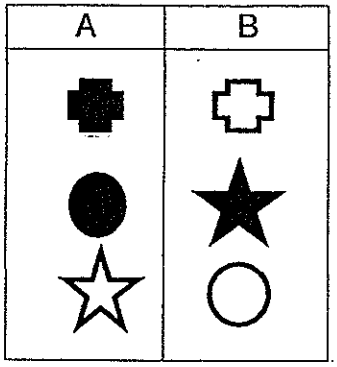
(3) X

(4) Y

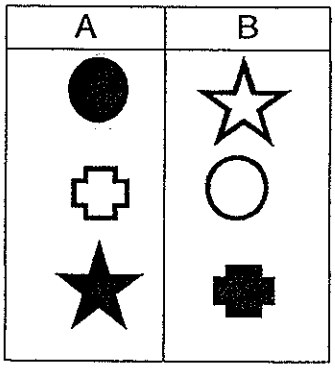
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5 Leo, Ram, Mary and Ahmad were given some wooden blocks to classify. Their classifications are as shown below.

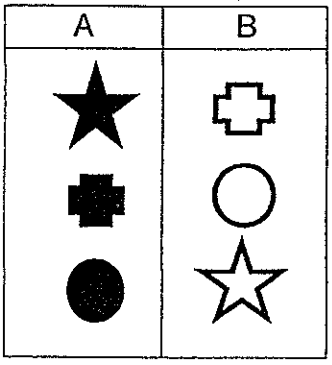
Leo



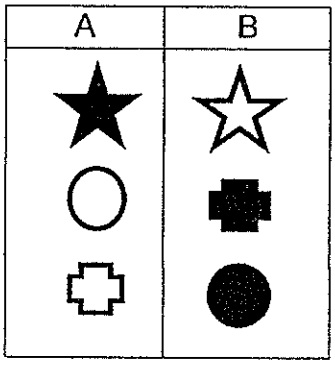
Ram



Mary



Ahmad



Who has classified the blocks correctly?

(1) Leo

(2) Ram

(3) Mary

(4) Ahmad

6 Which one of the following statements about ferns and mosses is correct?

(1) They do not bear flowers.

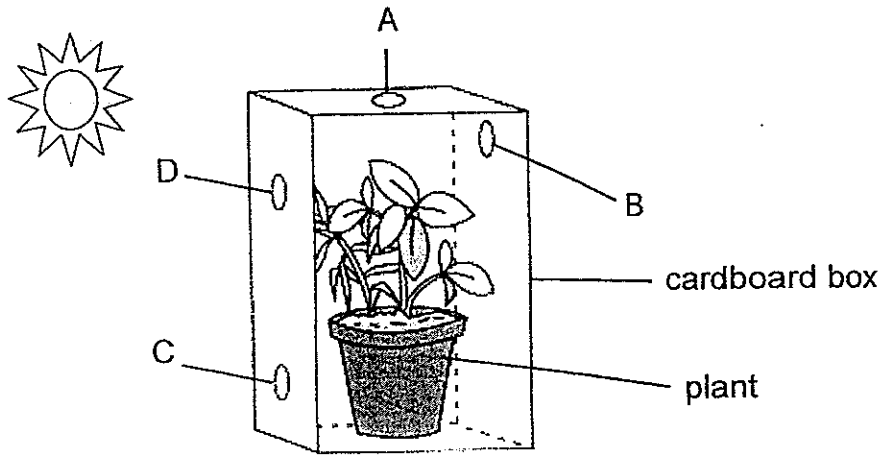
(2) They are found only in water.

(3) They do not need air, food and water.

(4) They feed on dead animals and plants.

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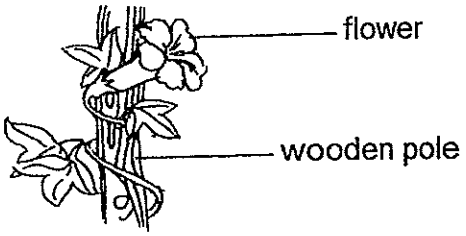
7 A young plant was placed in a thick cardboard box as shown below. Four holes, A, B, C and D, were made on the sides of the box to allow light to enter.



Which one of the holes would the plant most likely grow towards?

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

8 The picture below shows a plant growing in the garden.



Which of the following statements is/are correct?

H It is a flowering plant.
J The plant is a water plant.
K The plant reproduces from spores.

(1) H only
(2) H and K only
(3) J and K only
(4) H, J and K

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9 The table below shows the characteristics of four plants, K, L, M and N. A tick (✓) represents that the plant has that characteristic.

Characteristic	Plant			
	K	L	M	N
Bears flowers	✓		✓	
Found on land	✓	✓		
Reproduces by spores		✓		✓

Based on the information above, which of the following is the most suitable description for plants K and L?

	Plant K	Plant L
(1)	Fungi	Ferns
(2)	Water plant	Land plant
(3)	Flowering plant	Non-flowering plant
(4)	Non-flowering plant	Fungi

10 Ray caught two animals that can fly. One of them was an insect. Which of the following characteristics help him identify the insect?

O Two eyes

P Two wings

Q A pair of feelers

R Three body parts

(1) O and R only

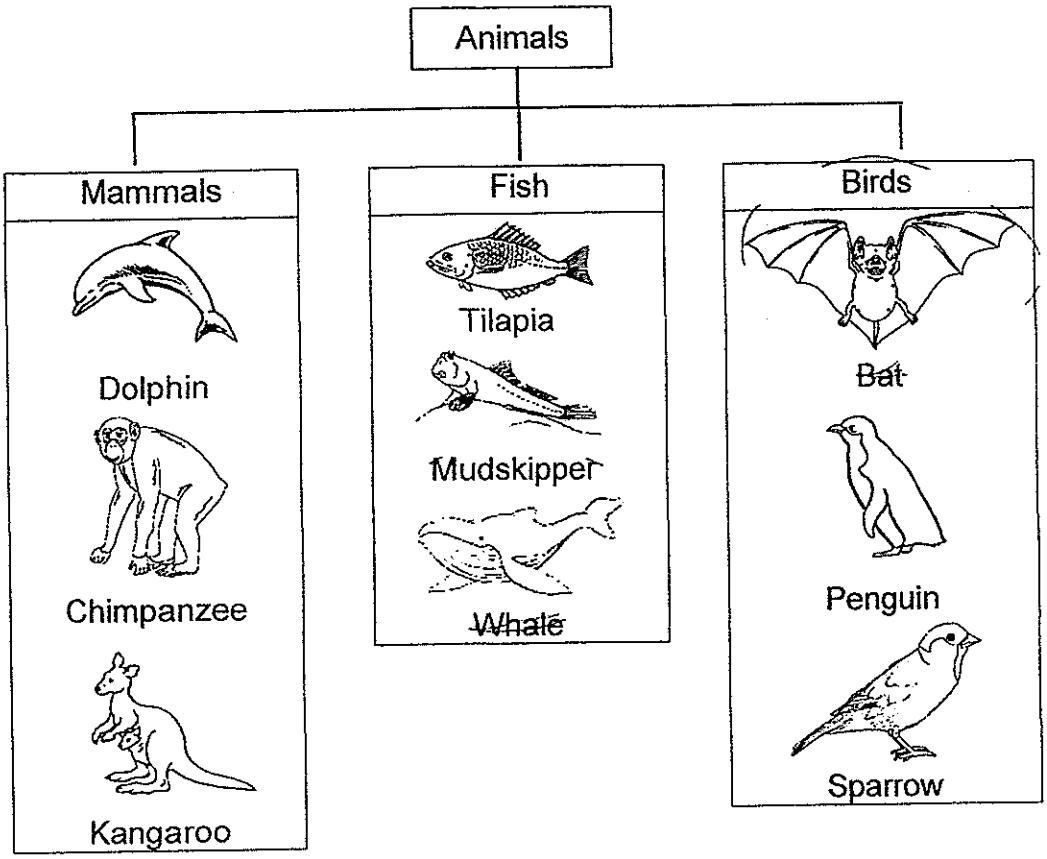
(2) Q and R only

(3) P, Q and R only

(4) O, P, Q and R

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11 Fatimah was given a list of 9 animals. She classified them in a classification chart as shown below.



Which animals have been classified wrongly?

(1) Bat and Whale

(2) Dolphin and Whale

(3) Bat and Mudskipper

(4) Dolphin and Mudskipper

12 Animal S has the following characteristics:

- Has lungs
- Has moist skin
- Lives on land and in water

Which one of the following groups does animal S belong to?

(1) Fish

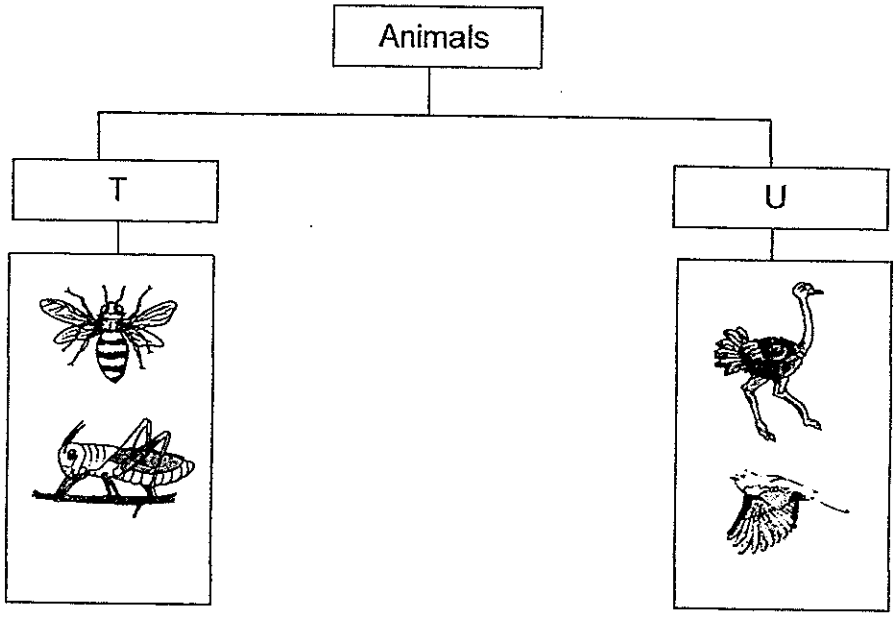
(2) Birds

(3) Reptiles

(4) Amphibians

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13 Zaki classified some animals as shown in the classification chart below.



Which one of the following sub-headings correctly represents T and U?

	T	U
(1)	Lay eggs	Give birth
(2)	Do not have wings	Have wings
(3)	Do not have feelers	Have feelers
(4)	With hard outer covering	With feathers

14 Which of the following statements about micro-organisms are true?

A Bacteria cannot reproduce.

B All micro-organisms are harmful.

C Yeast can be used to make bread.

D Micro-organisms cannot be seen with the naked eye.

(1) A and B only

(2) C and D only

(3) B, C and D only

(4) A, B, C and D

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15 Fungi need _____ to grow.

E air

F food

G water

H sunlight

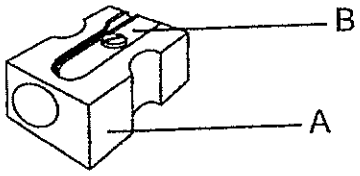
(1) E, F and G only

(2) E, F and H only

(3) E, G and H only

(4) F, G and H only

16 The picture below shows a sharpener.

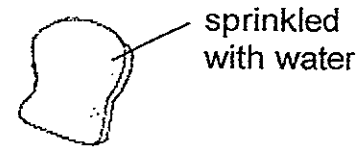


What are parts A and B made of?

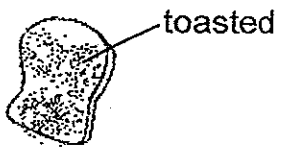
	A	B
(1)	Wood	Rubber
(2)	Paper	Metal
(3)	Plastic	Metal
(4)	Rubber	Plastic

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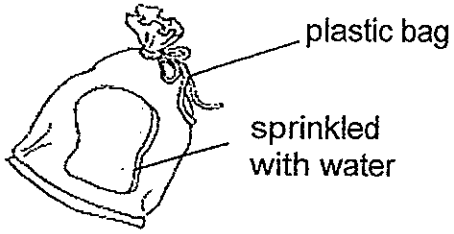
17 David did an experiment on bread slices as shown below. He placed 4 slices of similar bread on a table and sprinkled some water onto 2 of the slices. He toasted the remaining two slices and left them to cool down. He then tied 2 of the bread slices in plastics bags.



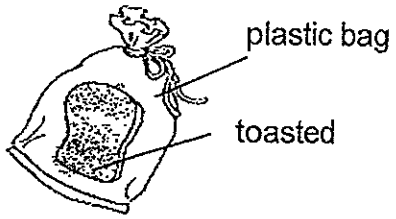
Bread H



Bread J



Bread K



Bread L

The table below shows the number of days taken for the slices of bread to turn mouldy.

Bread	H	J	K	L
Number of days	2	4	3	8

What can you conclude from the results shown?

(1) Mould grows best in the open.

(2) Mould grows best in the presence of water.

(3) Mould grows best when the bread is sealed in a bag.

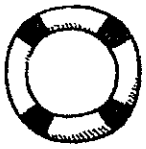
(4) Mould grows best when the bread was left longer in the open regardless of the conditions of the bread.

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18 The following table shows the characteristics of 4 different materials.

Material	Waterproof	Strong	Breaks easily when dropped
P	✓	✓	
Q	✓		✓
R			✓
S	✓	✓	✓

Which material is the most suitable to make a float, as shown in the picture?



(1) P

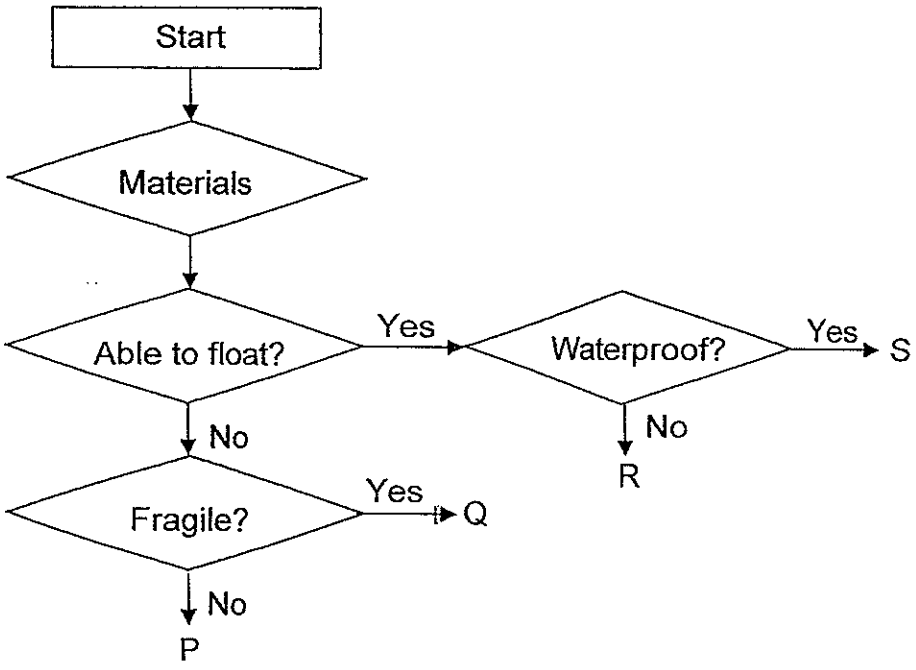
(2) Q

(3) R

(4) S

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19 The flow chart shows the properties of some materials.



Which material is glass?

(1) P

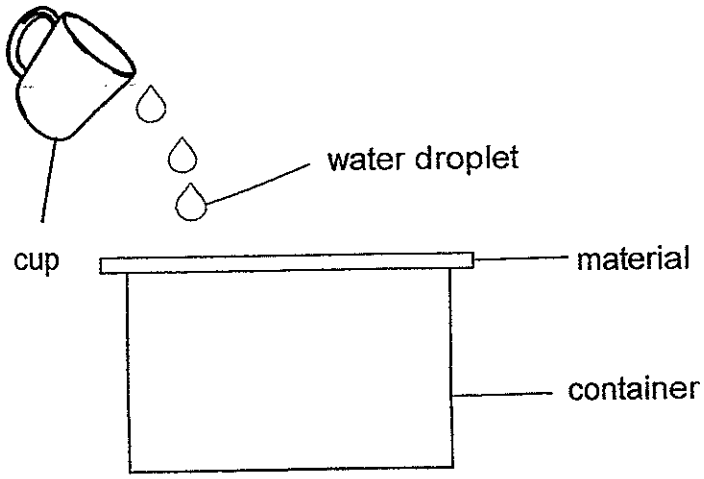
(2) Q

(3) R

(4) S

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20 James conducted an experiment to find out which material, W, X, Y or Z is the most suitable to make an umbrella. He set up an experiment as shown below. He then poured a cup of water over each material. James measured the water collected in the container after 1 minute.



He recorded his findings in the table below.

Material	Amount of water collected in the container (ml)
W	5
X	15
Y	0
Z	10

Which material is the most suitable to make an umbrella?

(1) W

(2) X

(3) Y

(4) Z

End of Booklet A

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CATHOLIC HIGH SCHOOL
SEMESTRAL ASSESSMENT 1
2014
PRIMARY THREE

SCIENCE

BOOKLET B

Name: _____ ( )

Class: Primary 3 - _____

Date: 29 October 2014

Parent's Signature: _____

Booklet A	48
Booklet B	32
Total	80

10 questions

32 marks

Total Time for Booklets A and B: 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.

This booklet consists of 11 printed pages, excluding cover page.

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Booklet B (20 marks)

For questions 21 to 27, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (20 marks)

21 Jeremiah had a pot of plant. He watered the plant everyday and measured the height at the end of every week. He recorded his results in a table as shown below.

	Week 1	Week 2	Week 3	Week 4
Height of plant (cm)	2	6	11	18

(a) Based on the table above, what can you tell about the height of the plant from Week 1 to Week 4? [1]

(b) What does the experiment show about plants? [1]

(c) What do you think will happen to the height of the plant at week 5, when Jeremiah stops watering it at week 4? [1]

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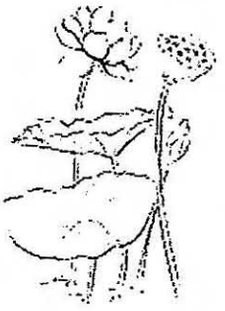
SCORE / 3

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22 Study the two plants below.



Sunflower



Lotus

(a) State one similarity between the two plants. [1]
(Do not compare shape and size)

_____

_____

(b) State one difference between the two plants. [1]
(Do not compare shape and size)

_____

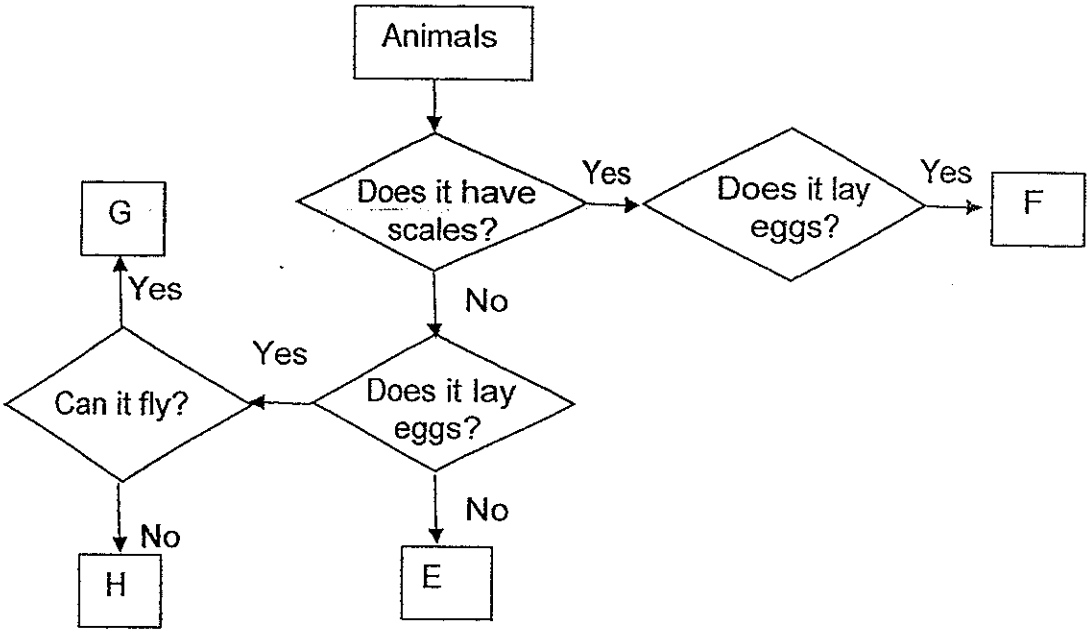
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SCORE	2

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23 Study the flow chart below.

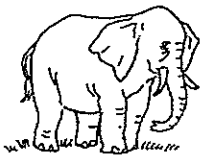
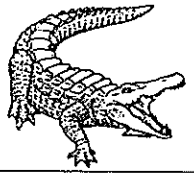


(a) Based on the flow chart above, how is animal G different from animal F? [1]

_____

_____

(b) Which of the following animals could be E, F, G or H? Write the correct letter in the box below. [2]

			
Frog	Sparrow	Elephant	Crocodile

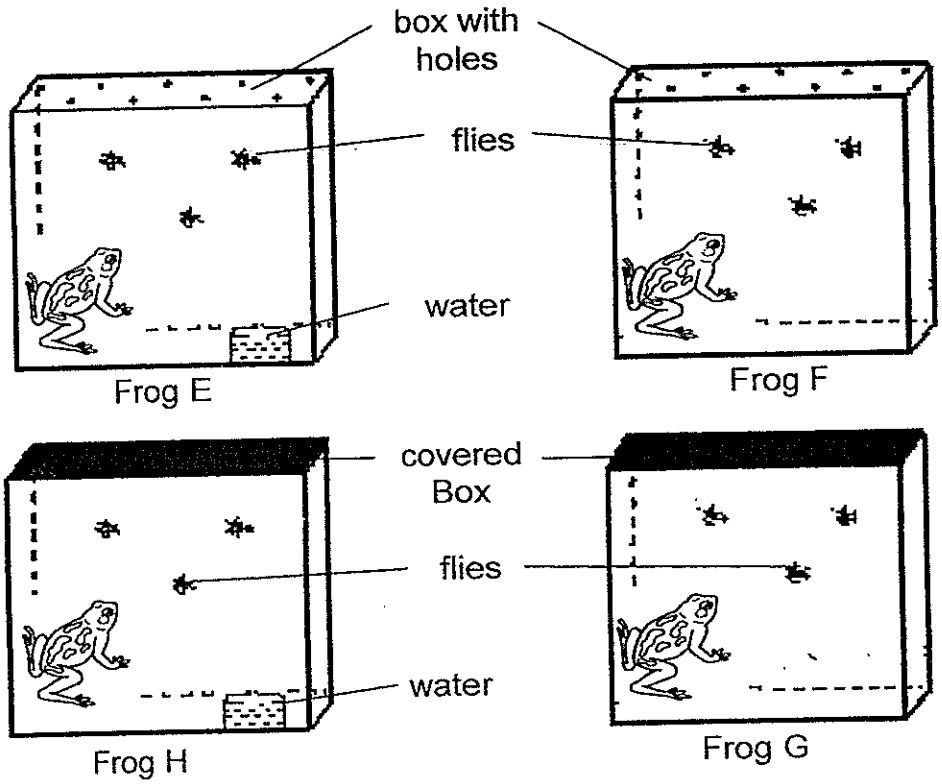
Frog:	
Sparrow:	
Elephant:	
Crocodile:	

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SCORE	/ 3

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24 Mariam set up an experiment as shown below.



(a) Based on the pictures above, which frog will live the longest? [1]

_____

(b) Explain your answer in (a). [1]

_____

_____

(Go on to the next page)

SCORE	2

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25 Mary had 4 slices of plain bread, Q, R, S and T. She added 2 drops of water, 5 drops of water and 8 drops of water to 3 slices of bread and did not add water to the remaining slice. She then left them in the open and went for a holiday.

She returned from the holiday and saw green patches on the bread slices.

(a) Refer to the diagram below. Match the drops of water to the most suitable bread slices. [2]



Bread Q



Bread R



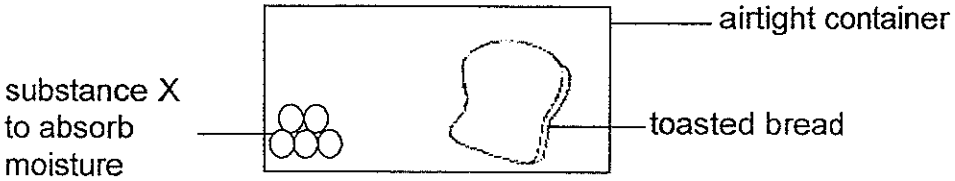
Bread S



Bread T

- Nø drops of water added.
- 2 drops of water added.
- 8 drops of water added.
- 5 drops of water added.

(b) Mary took another piece of bread and toasted it. She cooled the bread and then placed it in an airtight container. She added substance X to absorb the moisture in the container as shown below.



What would you expect to see after 2 days? Give a reason for your answer. [2]

_____

_____

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SCORE / 4

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26 Suresh used three different materials to make similar bags, L, M and N. In each bag, he added one can of drink at a time until the bag broke.



He then recorded the number of cans needed to break each bag, in a table as shown below.

Bag	Number of cans added
L	12
M	23
N	16

(a) Which bag is made of the weakest material? [1]

_____

(b) Which bag is made of a material that is most suitable for making a school bag? [1]

_____

(c) Give a reason for your answer in part (b). [1]

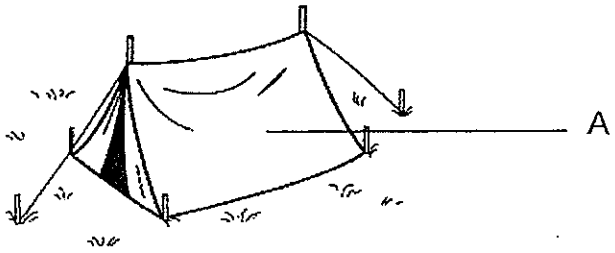
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SCORE	/ 3

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27 Devi conducted an experiment using materials W, X, Y and Z. She recorded her results in the table below.

Materials / Property	W	X	Y	Z
Strong	Yes	Yes	No	Yes
Flexible	No	Yes	No	Yes
Waterproof	Yes	Yes	Yes	No
Transparent	No	No	Yes	No



(a) Which one of the materials is most suitable to make part A of the tent? [1]

(b) Explain your answer for (a). [1]

(c) Based on the table above, state the differences between material W and Z. [1]

End of Booklet B

SCORE	3

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Year: 2014
Level: Primary 3
School: Catholic High School
Subject: Science
Semester: SA1

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

Q21) a) The height of the plant increased.
b) Plants need water to grow.
c) The height of the plant decreases.
Q22) a) Both are flowering plants.
b) The Sunflower lives on land but the Lotus lives in water.
Q23) a) Animal F has scales but animal G does not have scales.
b) Frog: H Sparrow: G Elephant: E Crocodile: F
Q24) a) Frog E.
b) Frog E has air, food and water but the other three frogs only have some of the elements.
Q25) a)
Bread Q → 8 drops of water
Bread R → 2 drops of water
Bread S → 5 drops of water
Bread T → No drops of water
b) No mould would be seen on the bread. Mould needs water to grow but substance X absorbed all the moisture.
Q26) a) Bag L
b) Bag M
c) Bag M is the strongest as it is able to carry the most number of cans before it breaks.
Q27) a) Material X
b) Material X is strong, flexible, waterproof and not transparent.
c) Material W is not flexible but material Z is flexible. Material W is waterproof but material Z is not waterproof.

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