CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION (2019)

PRIMARY THREE

SCIENCE

BOOKLET A

Name: _____ ( )

Class: Primary 3 - _____

Date: 16 May 2019

16 questions

32 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 11 printed pages, excluding the cover page.

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Booklet A (16 × 2 marks)

For each question from 1 to 16, 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. (32 marks)

1 Look at the pictures below.





How are these two living things similar? Both _____.

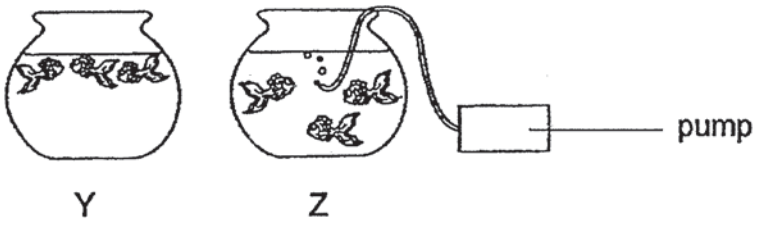
(1) can make their own food

(2) need air, food and sunlight to survive

(3) can grow and move from place to place

(4) respond to changes in the surroundings

2 Ken placed three fish each in two similar fish bowls, Y and Z.
He fixed a water pump to provide air only in bowl Z. The next day, he noticed that the fish in bowl Y were swimming near the water surface as shown below. The fish in bowl Z continued swimming around in the water.



Based on his observation, what does this tell you about the fish?

(1) Fish need air to survive.

(2) Fish need plenty of sunlight.

(3) Fish cannot survive in cold water.

(4) Fish like to swim near the water surface.

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3 Abdul observed four different things, E, F, G and H, and recorded his observations in the table below. A tick (✓) indicates that the characteristic was observed.

Things	Needs air, food and water	Can reproduce	Has legs
E	✓	✓	
F			✓
G	✓	✓	
H	✓	✓	✓

Which of the following is most likely to be a non-living thing?

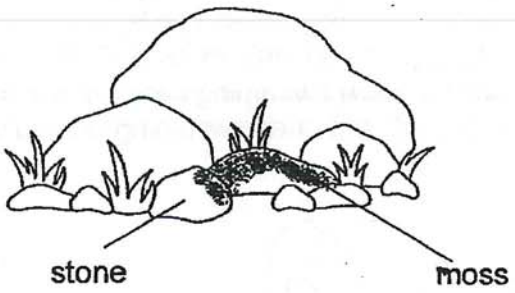
(1) E

(2) F

(3) G

(4) H

4 The table below shows Xiao Jie's observations on four types of plants, A, B, C and D. A tick (✓) indicates that the plant part was observed.



Which of the following plants is most likely to be moss?

	Plant	Presence of flowers	Presence of fruits
(1)	A		
(2)	B		✓
(3)	C	✓	✓
(4)	D	✓	

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5 Minghui saw a plant in the school garden. He used a list of questions to decide what kind of plant it was. His answers to the questions are shown in the table below.

Questions	Answers
Does it bear fruits?	Yes
Does it live on land?	Yes
Does it have spores?	No

Which of the following is most likely the plant that Minghui saw?

(1)



banana tree

(2)



fern

(3)



water lily

(4)

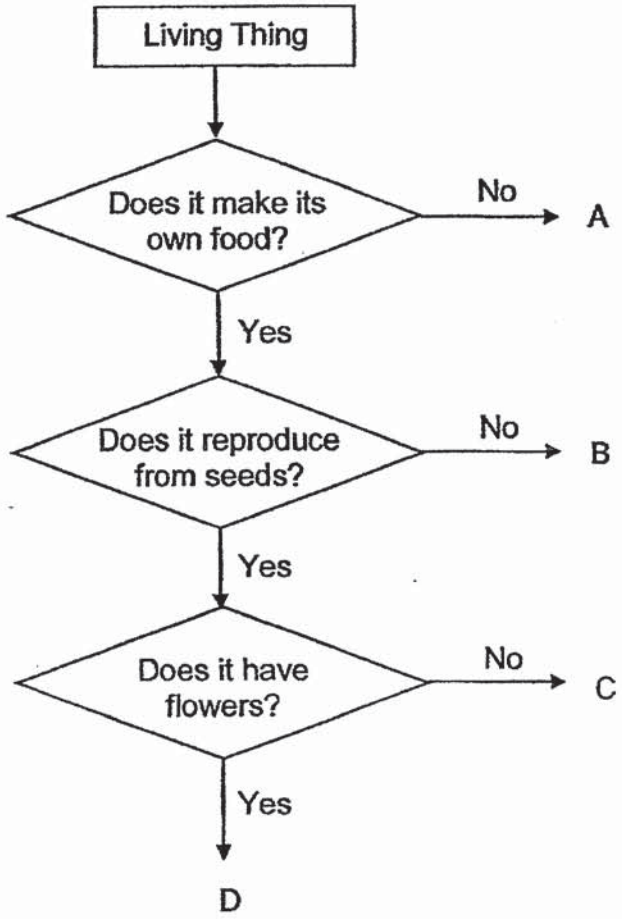


mushroom

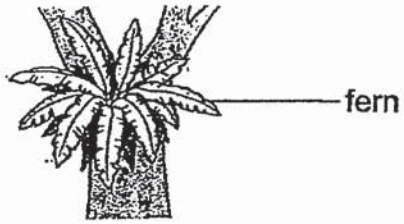
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6 Study the chart below.



Which one of the following best represents the fern as shown in the picture below?



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

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7 The table below shows Ahmad's observation on four groups of animals, A, B, C and D. A tick (✓) indicates that the characteristic was observed.

	Animal groups			
Characteristics	A	B	C	D
It has scales.	✓		✓	
It breathes through its gills.			✓	
It breathes through its skin.				✓

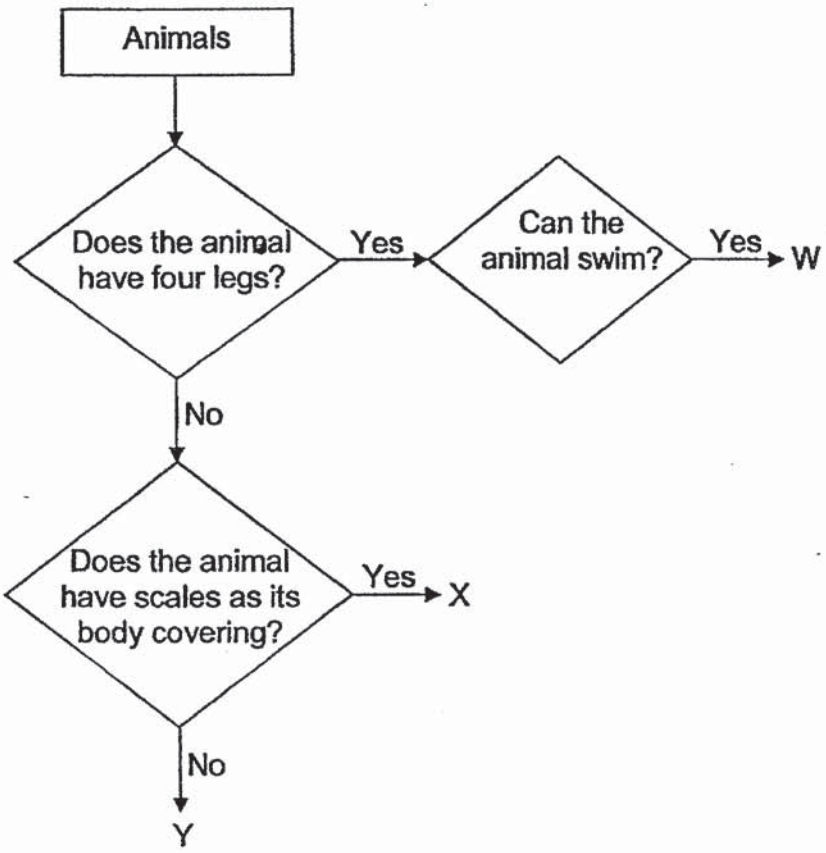
Based on the table above, which of the following is classified correctly?

	Animal groups	Living things
(1)	A	Fish
(2)	B	Reptiles
(3)	C	Mammals
(4)	D	Amphibians

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8 Study the chart below.



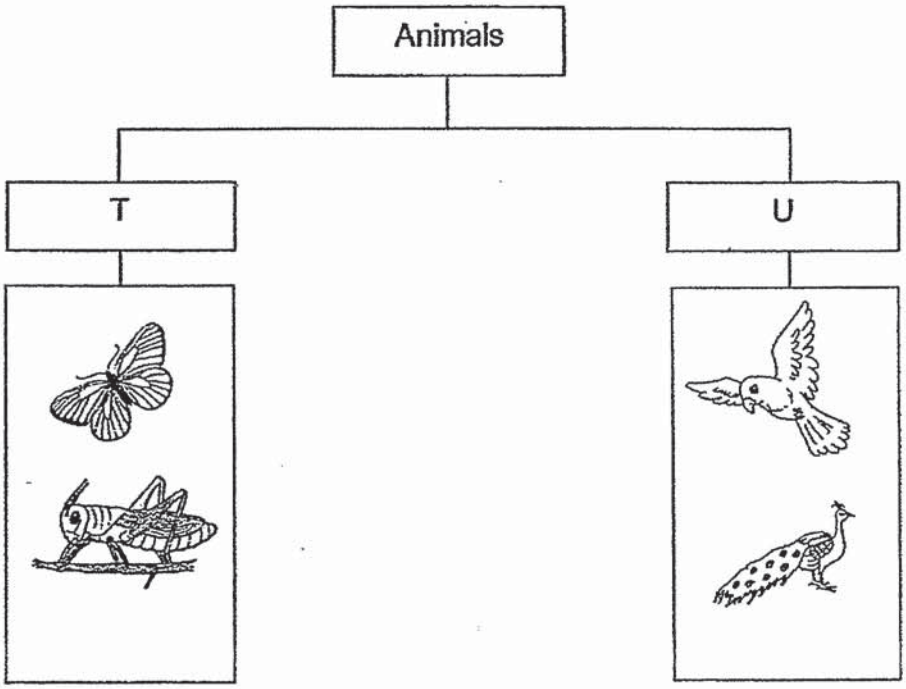
Which of the following is a characteristic of animal X?

A It cannot swim.
B It has four legs.
C Its body is covered with scales.

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

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9 Zak classified some animals as shown in the chart below.



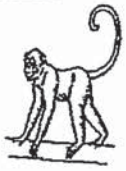
Which one of the following correctly represents T and U?

	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

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10 Some animals are classified into two groups, A and B, according to how they breathe.

Group A	Group B
 lion  monkey  dolphin	 fish  whale  shark

Which animal in the table above has been grouped incorrectly?

(1) fish
(2) lion
(3) whale
(4) dolphin

11 Which of the following statements about bacteria are correct?

A Bacteria can make its own food.
B Bacteria can be found only on plants.
C Bacteria respond to changes around them.
D Bacteria are so tiny that we need to use a microscope to see them.

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

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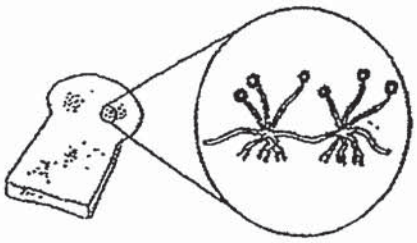
12 Three children made some statements about spores.

Ann They are light and small.
Ben They are found in flowering plants.
Carl They are found in both fungi and non-flowering plants.

Who made the correct statement(s)?

(1) Ann only
(2) Ben only
(3) Ann and Carl only
(4) Ben and Carl only

13 The pictures below show some bread mould and a fern.



bread mould



fern

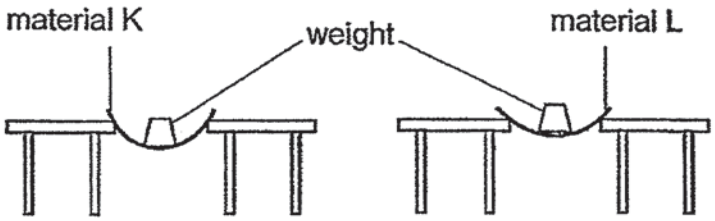
Which one of the following shows the correct comparison?

	Similarity	Difference
(1)	Both are fungi.	Mould has no leaves but the fern has leaves.
(2)	Both are living things.	Mould is not a microorganism but the fern is a microorganism.
(3)	Both reproduce from spores.	Mould does not make its own food but the fern makes its own food.
(4)	Both feed on other living things, dead or alive.	Mould is not a non-living thing but the mushroom is a living thing.

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14 Nelson had two different materials. He placed the different materials of the same size across two tables. A weight was first placed on material K and then on material L.



What property was Nelson testing?

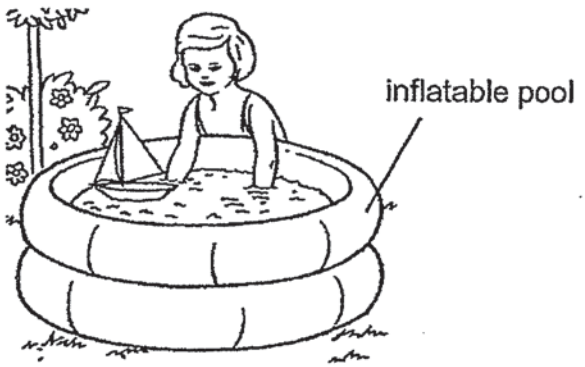
(1) flexibility

(2) waterproof

(3) transparency

(4) ability to float in water

15 Which of the following characteristics is the most important when choosing a material to make an inflatable pool to enable Julie to play with the boat in the water?



(1) It must be light.

(2) It must be strong.

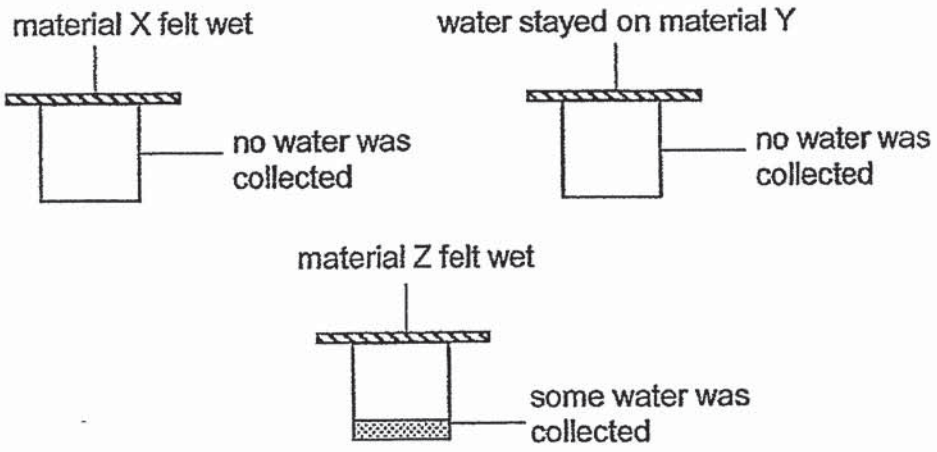
(3) It must be waterproof.

(4) It must be able to bend.

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16 Yusri placed three sheets of different materials, X, Y and Z, over the mouth of three similar containers. He poured two tablespoons of water onto each material. The results are as shown below.



Based on his results, Yusri made the following statements.

A Material Y could not absorb any water.
B Material Z absorbed the most amount of water.
C Material X absorbed more water than material Z.

Which of his statements are correct?

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

End of Booklet A

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CATHOLIC HIGH SCHOOL

MID-YEAR EXAMINATION (2019)

PRIMARY THREE

SCIENCE

BOOKLET B

Name: _____ ( )

Class: Primary 3 - _____

Date: 16 May 2019

Parent's Signature: _____

Booklet A	32
Booklet B	18
Total	50

7 questions

18 marks

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

INSTRUCTIONS TO CANDIDATES

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This booklet consists of 8 printed pages, excluding the cover page.

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Booklet B (18 marks)

For questions 17 to 23, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (18 marks)

17 Xiao Ming observed three plants, A, B and C. He recorded his observations in the table below.

	Plants		
Characteristics	A	B	C
Has flowers?	Yes	Yes	No
Has green leaves?	Yes	Yes	Yes
Water plant?	Yes	No	Yes

(a) Based on the information given in the table above, state all the characteristics of plant C. [1]

_____

_____

(b) State a difference between plants A and B. [1]

_____

_____

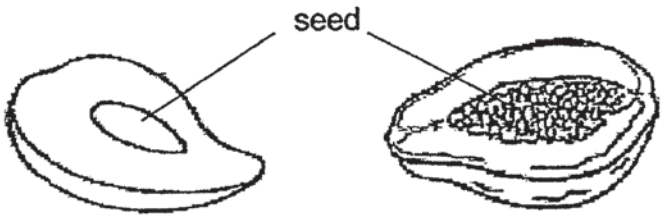
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SCORE 2

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18 Xiaoli observed two cut fruits as shown below.



fruit P fruit Q

(a) Based on your observation above, state a difference between fruits P and Q. (Do not compare their shape, size and colour). [1]

_____

_____

(b) Xiaoli then spotted a plant that bears some fruits as shown below.



Based on the diagram above, fill in "T" for true or "F" for false. [1]

(i) It is a flowering plant. _____

(ii) The plant reproduces from spores. _____

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SCORE	/2

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19 The diagram below shows an animal.



animal X

(a) Lily wants to find out whether animal X is an insect. What are the possible actions she should take to confirm if it is an insect? Put a tick (✓) accordingly. [1]

Actions	Tick (✓)
Measure its length	
Check to see if it has wings	
Check to see if it has feelers	
Check to see if it has six legs	
Check to see if it has three body parts	

(b) After observing animal X closely, Lily concluded that animal X is not an insect. Do you agree? Explain. [1]

_____

_____

(c) How do insects reproduce? [1]

_____

_____

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SCORE	3

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20 Four animals are shown in the diagram below.

 fly	 lion	 bird	 bear
R	S	T	U

(a) Which two animals, R, S, T or U, can be put into the same group of animals according to their body covering? [1]

_____

(b) Based on the diagram above, state one common characteristic between the two animals that you have chosen in (a). [1]

_____

_____

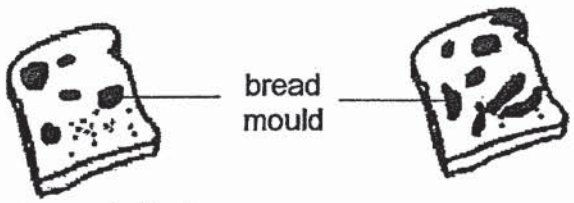
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SCORE	/ 2

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21 Tom left two pieces of bread, A and B, in a dark cupboard for five days.



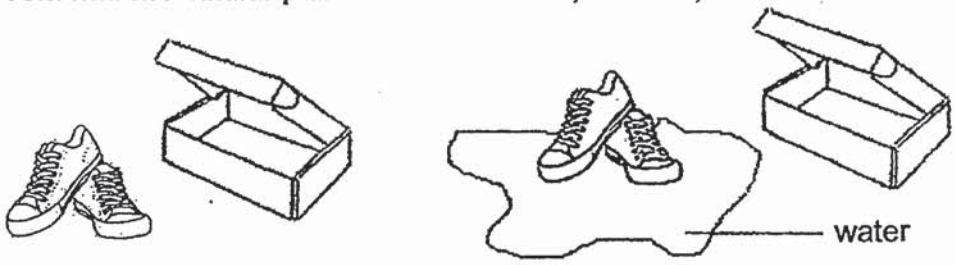
bread A (dry) bread B (moist)

At the end of five days, Tom observed that more bread mould had formed on bread B.

(a) Based on the information above, name the condition necessary for the bread mould to grow on the bread. [1]

Presence of _____

Tom had two similar pairs of leather shoes, X and Y, as shown below.



shoe X shoe Y

Shoe X was dry while shoe Y was wet. Tom kept the two pairs of leather shoes in two separate shoe boxes and left them in the shoe cupboard. After one week, Tom found some mould growing on one of the pairs of leather shoes.

(b) Which pair of leather shoes, X or Y, would mould be seen growing? Explain. [2]

_____

_____

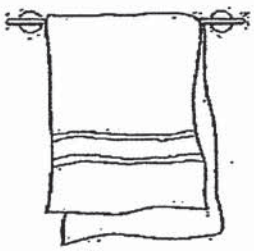
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SCORE	/ 3

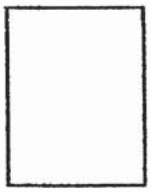
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22 Marie accidentally spilled some milk on the floor. She found a towel and a plastic sheet nearby.



towel



plastic sheet

(a) Which material should Marie use to dry the floor? Give a reason for your answer. [1]

_____

_____

Below is another tool that Marie can use to clean the floor.



(b) Write the material that is suitable for making parts P and Q in the table below. [1]

Part	Material
P	
Q	

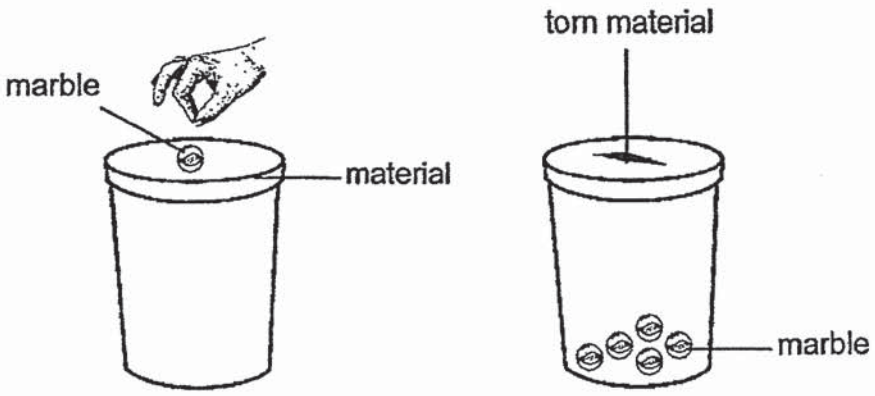
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SCORE	2

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23 Sam has 3 different materials, P, Q and R. He wanted to find out which material is the strongest. He placed the marbles on each material, one marble at a time, until the material tore and dropped into the container.



Sam recorded the results in the table below.

Material	Number of marbles needed to tear the material
P	2
Q	5
R	7

(a) How would Sam know which type of material, P, Q or R, is the strongest from the experiment? [1]

_____

_____

(b) Based on Sam's result, what can he conclude about the strength of material R from his experiment? [1]

_____

(c) What should Sam do in his experiment to make sure that the material tested is the strongest? [1]

_____

_____

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SCORE	3

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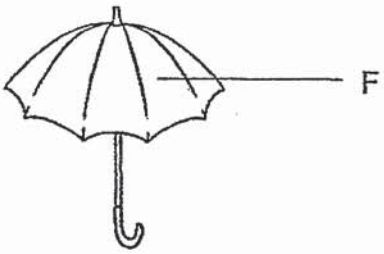
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Continue from Q23

Sam then tested the other properties of materials, P, Q and R. He then recorded the results in the table below. A tick (✓) represents the material has the property.

	Material		
Properties	P	Q	R
Is it flexible?	×	✓	×
Is it waterproof?	✓	✓	✓
Does it break when dropped?	✓	×	×

(d) Sam has an umbrella.



Based on the table above, which material, P, Q or R, should be used to make part F of an umbrella? [1]

_____

End of Booklet B

SCORE	/ 1

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ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 3
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : SCIENCE
TERM : MYE

BOOKLET A

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

BOOKLET B

Q17a)It does not bear flowers,it has given grrenleaves and it is a water plant.

b)Plant A is a water plant but Plant B is not a water plant.

Q18a)Fruit P has only one seed but Fruit Q has many seeds.

b)(i)T

(ii)F

Q19a)Check to see if it has six legs

Check to see if it has three body partsb)Yes. An insect has feelers, six legs and thre body parts but Animal X does not have three body parts, six legs and feelers.

c)The ›duce by laying eggs.

Q20a)S and U

b)Both have hair

Q21a)Presence of moisture.

b)Shoe Y has waters so mould grow as mould can grow when there is water.

Q22a)The towel, because it absorbs water so the floor will be dry.

b)P Plastic

Q Cloth

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Q23a)If the material can hold the most number of marbles.

b)MaterialR is the strongest among all the material.

c)He should try it again.

d)Material Q

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