

Name: _____ ()

Class: Primary 3 _____

Primary 3
Semestral Assessment 1 – 2016
SCIENCE
BOOKLET A
12 May 2016

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

15 questions
30 marks

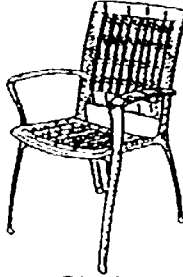
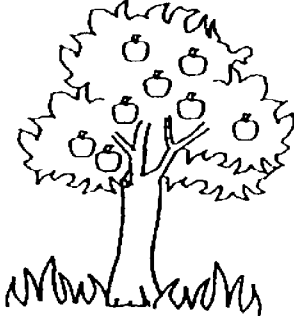
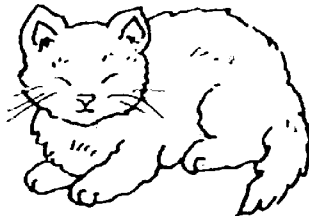
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This booklet consists of 12 printed pages.

Section A (15 x 2 marks = 30 marks)

For each question from 1 to 15, 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 provided.

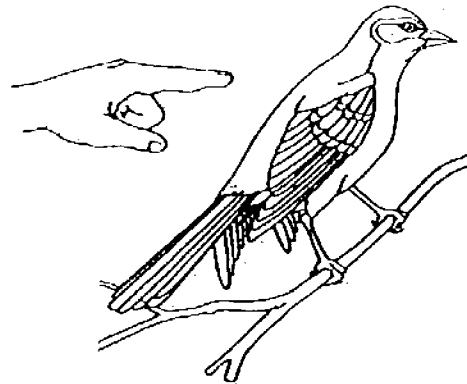
1. Study the classification table below.

Group A	Group B
 Eagle	 Chair
 Tree	 Toy Cat

Which one of the following headings best represents Group A and Group B?

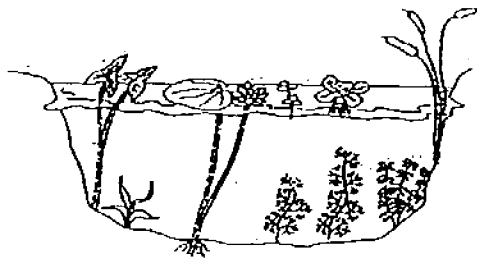
	Group A	Group B
(1)	Can fly	Cannot fly
(2)	Has 2 legs	Has 4 legs
(3)	Can reproduce	Cannot reproduce
(4)	Does not need air, water and food	Needs air, water and food

2. Sanjay saw a bird perched on a tree branch. He tried to touch the bird with his finger as shown below. The bird flew away.



Which characteristic of living things best explains the above reaction?

- (1) Living things can grow.
 - (2) Living things can have young.
 - (3) Living things can move around on their own.
 - (4) Living things can respond to changes around them.
3. Look at the pictures below.



Picture A



Picture B

Based on the pictures above, what can we conclude about the plants?

- (1) They have weak stems.
- (2) They are found on land.
- (3) Their fruits can be eaten.
- (4) They are found in different places.

4. Anna has classified some plants in groups X and Y.

X	Y
Moss	Chilli plant
Bird's nest fern	Pong Pong Tree

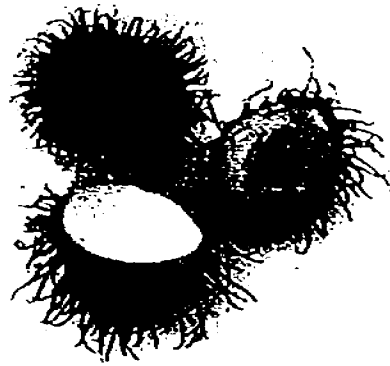
Based on the classification table above, which of the following is the most suitable headings for X and Y?

	X	Y
(1)	Flowering	Non-flowering
(2)	Non-flowering	Flowering
(3)	Fruits can be eaten	Fruits cannot be eaten
(4)	Fruits cannot be eaten	Fruits can be eaten

5. Look at the pictures below.



Starfruit



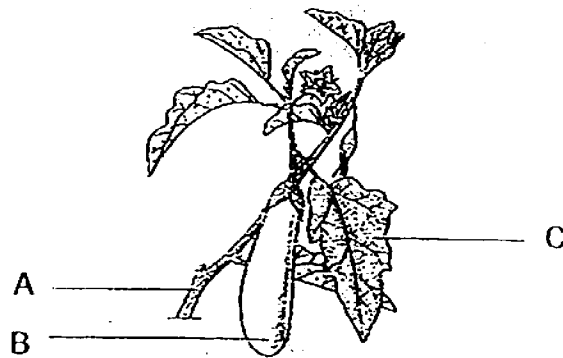
Rambutan

Based on the pictures shown, which of the following is/are difference(s) between the two fruits?

- A Shape
- B Texture of skin
- C Number of seed(s)

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

6. The drawing below shows a plant.



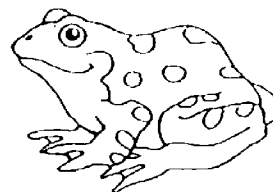
Which one of the following correctly matches parts A, B and C to the plant parts?

	A	B	C
(1)	leaf	stem	flower
(2)	stem	fruit	leaf
(3)	flower	stem	leaf
(4)	stem	leaf	fruit

7. Look at the pictures below.



Animal P



Animal Q

How are the two animals similar?

- (1) The way they move.
- (2) Their outer covering.
- (3) The way they reproduce.
- (4) The number of legs they have.

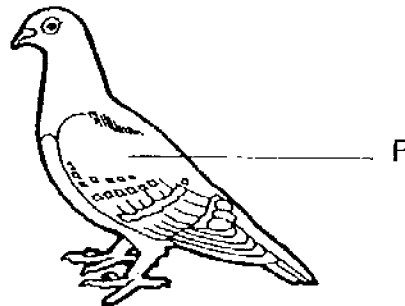
8. Some animals are classified based on their animal groupings as shown below.

Group S	Group T	Group U
Dogs	Pigeons	Sharks
Cats	Owls	Salmon

In which groups would chickens, bats and goldfish be placed?

	Chickens	Bats	Goldfish
(1)	Group T	Group S	Group U
(2)	Group S	Group U	Group T
(3)	Group T	Group U	Group S
(4)	Group S	Group T	Group U

9. Look at the picture shown below.

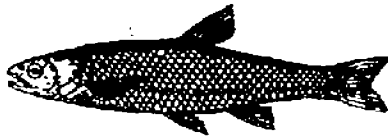


What is the function of the part labelled F?

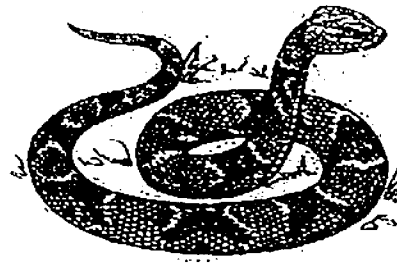
- A To fly
- B To reproduce
- C To keep warm

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

10. The diagram below shows two animals.



Fish



Snake

Which of the following statements about the two animals are true?

- A Both lay eggs.
- B Both have gills.
- C Both have scales.
- D Both live in water.

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

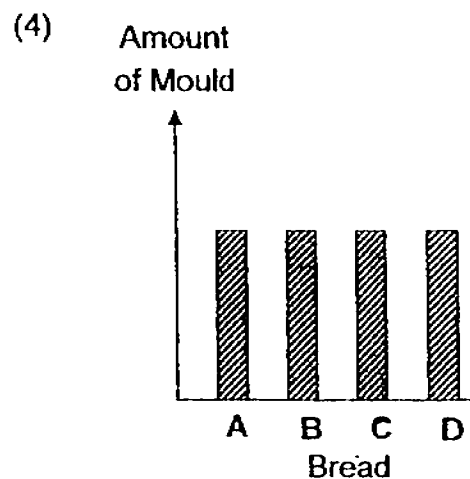
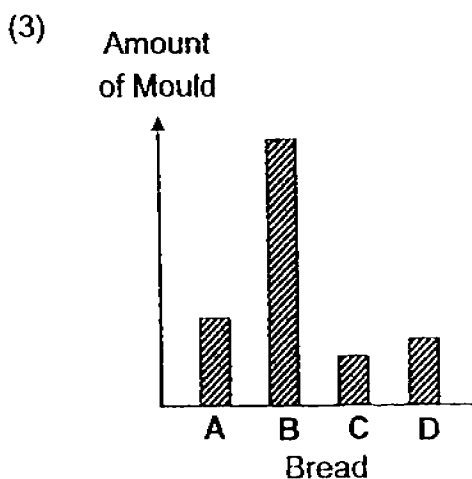
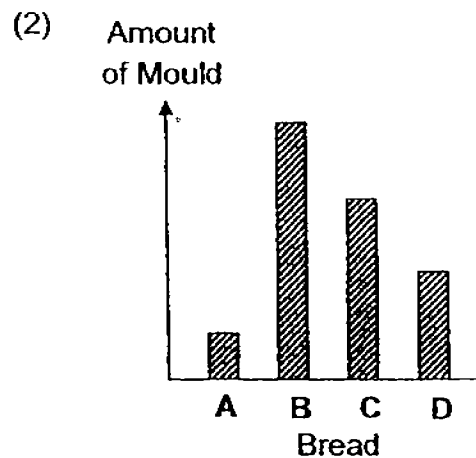
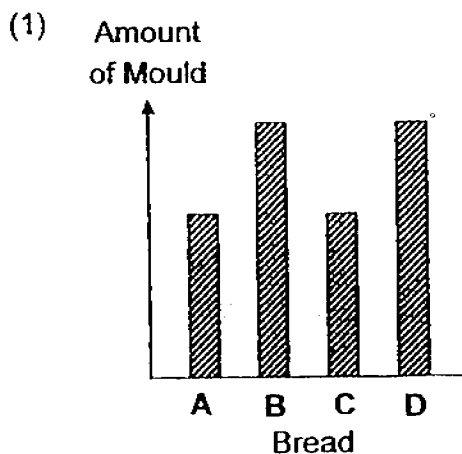
11. Which one of the following is true for both fungi and bacteria?

	Fungi	Bacteria
(1)	Harmful	Useful
(2)	Can make their own food	Cannot make their own food
(3)	Can only be found on bread	Can be found everywhere
(4)	Some can be seen without a microscope	Can only be seen with a microscope

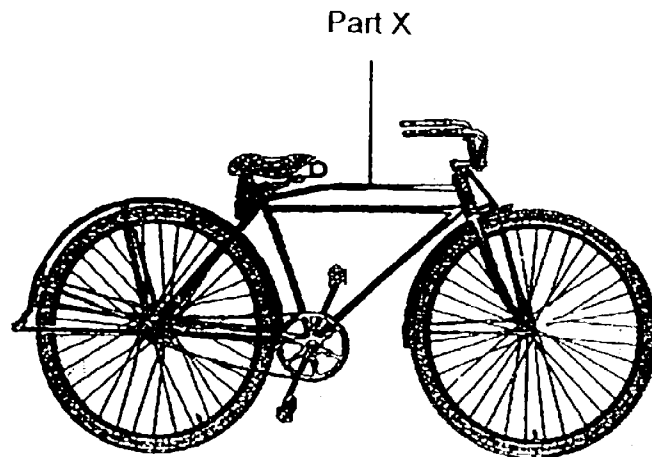
12. The diagram below shows 4 similar slices of bread. Two slices have been toasted and placed inside Ziploc bags while the other two were sprinkled with water and placed on plates. They were then placed in different locations.

A	B	C	D
Plates		Ziploc bags	
			
Moist Bread	Moist Bread	Toasted Bread	Toasted Bread
Placed in the Refrigerator	Placed in the Garden	Placed in the Refrigerator	Placed in the Garden

Which one of the following graphs best represents the amount of mould on each bread after 2 weeks?



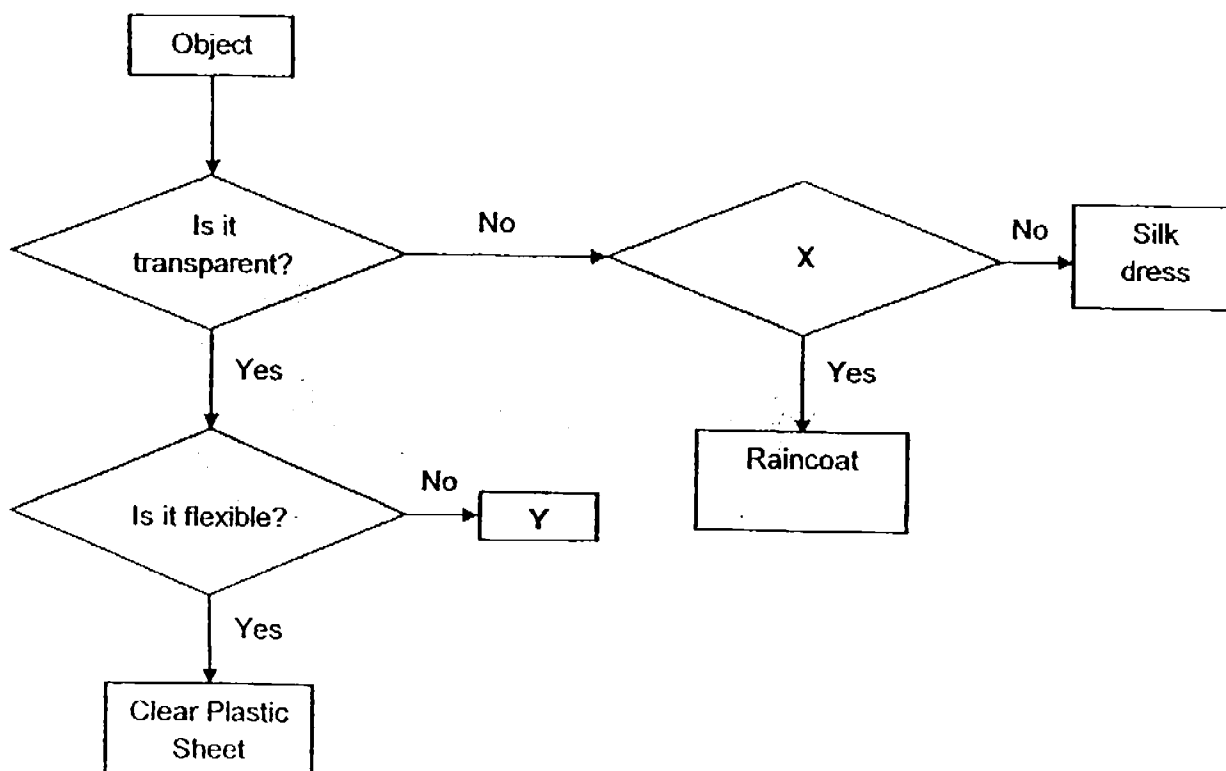
13. Hamid wanted to make a bicycle frame, Part X, as shown below.



Why should part X be made of metal?

- A Metal is strong.
 - B Metal is waterproof.
 - C Metal does not float on water.
 - D Metal breaks easily when bent.
-
- (1) A and B only
 - (2) C and D only
 - (3) A, B and D only
 - (4) B, C and D only

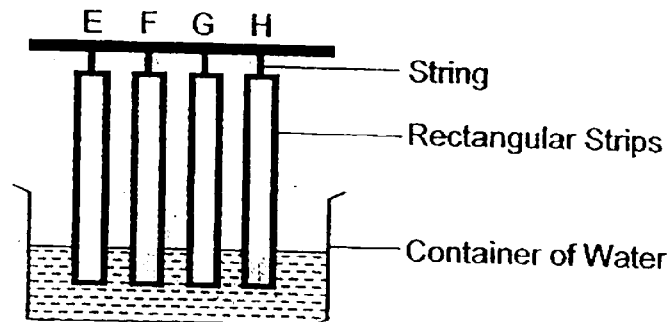
14. Study the flowchart given below.



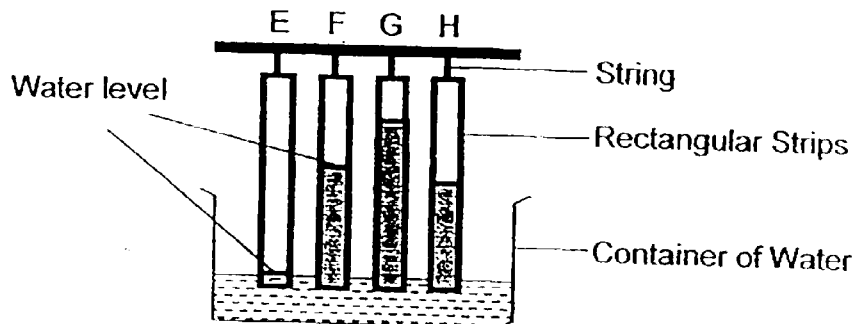
Which one of the following best represents X and Y?

	X	Y
(1)	Is it waterproof?	Cotton Towel
(2)	Is it waterproof?	Glass Cup
(3)	Does it float on water?	Glass Bottle Metal Ruler
(4)	Does it float on water?	Black Trash Bag

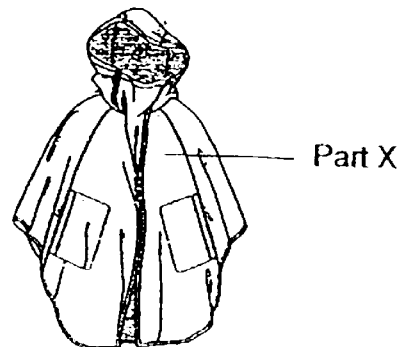
15. Jack conducted an experiment to measure the amount of water absorbed by 4 different materials, E, F, G and H. He took 4 rectangular strips of materials, each of equal length, size and thickness, and dipped all of them into the water as shown in the diagram below.



After 10 minutes, he noticed that some water has risen to different levels along the 4 rectangular strips as shown in the diagram below.



Based only on the results shown above, which material is most suitable for making part X of the raincoat shown below?



- (1) E
- (2) F
- (3) G
- (4) H

END OF BOOKLET A

Name : _____ ()

Class : Primary 3 _____

Primary 3
Semestral Assessment 1 – 2016
SCIENCE

BOOKLET B

12 May 2016

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

7 questions
20 marks

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

This paper consists of 9 printed pages.

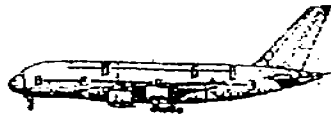
Booklet A	30
Booklet B	20
Total	50

Parent's Signature/Date

Section B (20 marks)

For questions 16 to 22, write your answers in this booklet. The number of marks available is shown in the brackets [] at the end of each question or part question.

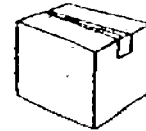
16. Study the things given below.



Airplane



Bee



Box



Sparrow



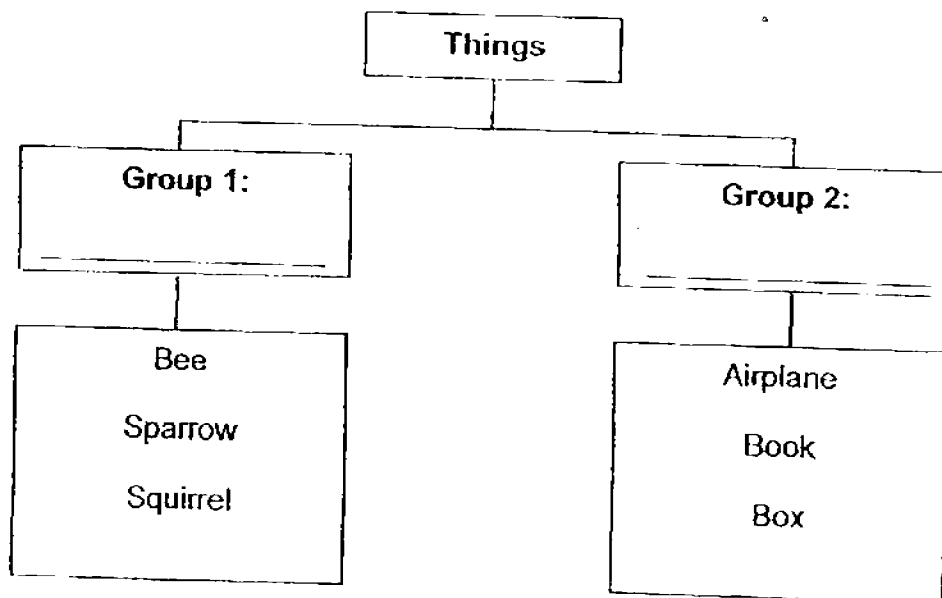
Book



Squirrel

(a) In the spaces provided below, give suitable headings based on how the above things are classified as shown below.

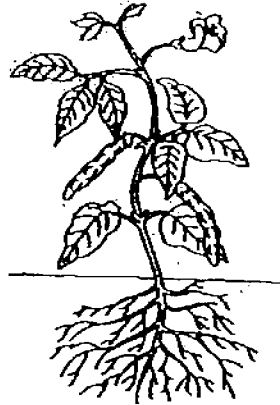
[2]



(b) Henry is given a robot dog which can dance when he claps his hand.

Based your answer in (a), in which group should he place the robot dog? [1]

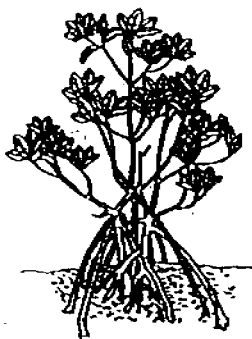
17. (a) Look at the organism shown below.



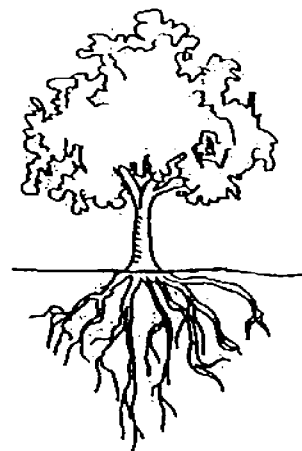
Is the above organism a plant? Explain your answer.

[1]

- (b) The diagram below shows two plants, C and D.



Plant C

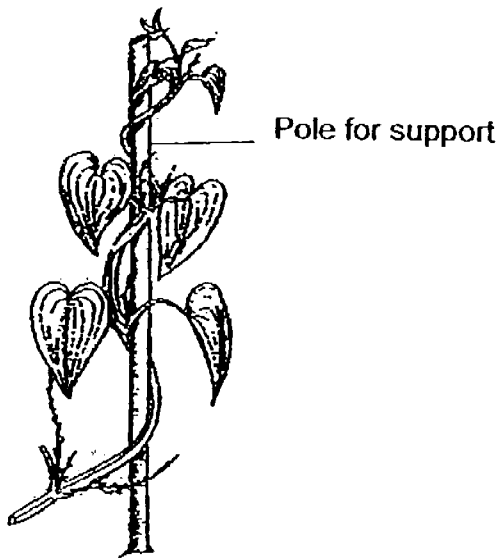


Plant D

State one difference between the roots of plant C and plant D?

[1]

(c) The diagram below shows two plants, E and F.



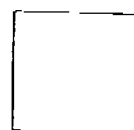
Plant E



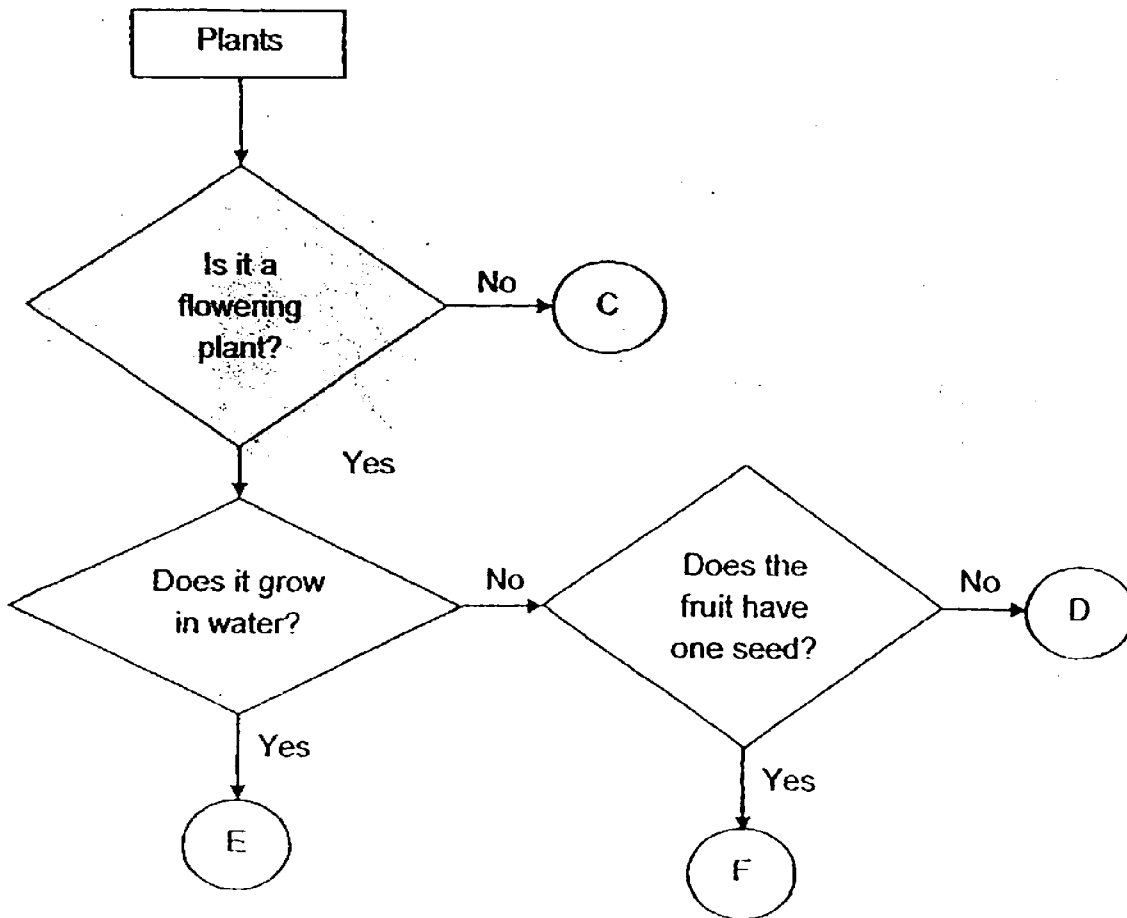
Plant F

State one difference between the stems of plant E and plant F.

[1]



18. Study the flowchart below.



(a) Based on the above flowchart, state one difference between plant C and E. [1]

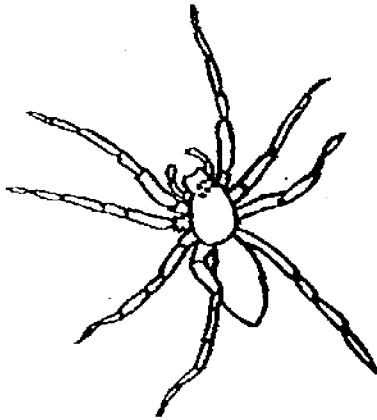
(b) Based on the above flowchart, state one similarity between plant D and F. [1]

(c) Based on the above flowchart, where would you put the following plant?
Write the letter only. [1]

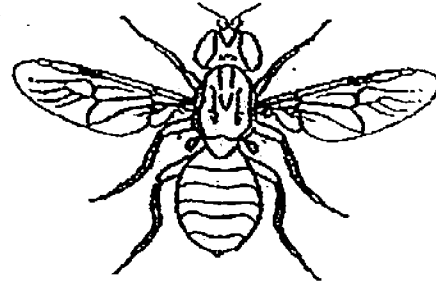
Tomato: _____



19. The diagram below shows two organisms, T and S.



T



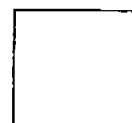
S

(a) Is organism T an insect? Give 2 reasons for your answer.

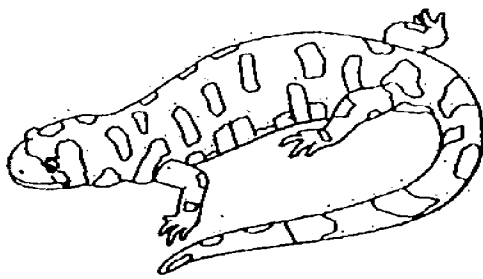
[1]

(b) State the reproduction method for organism S.

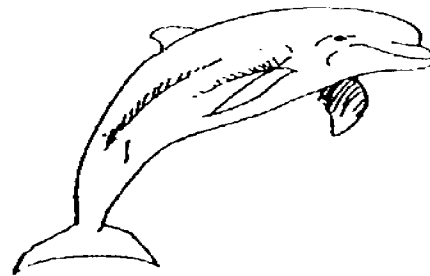
[1]



20. The diagram below shows a salamander and a dolphin.



Salamander



Dolphin

- (a) State the differences in, (i) the reproduction methods and, (ii) the outer covering of the salamander and the dolphin.

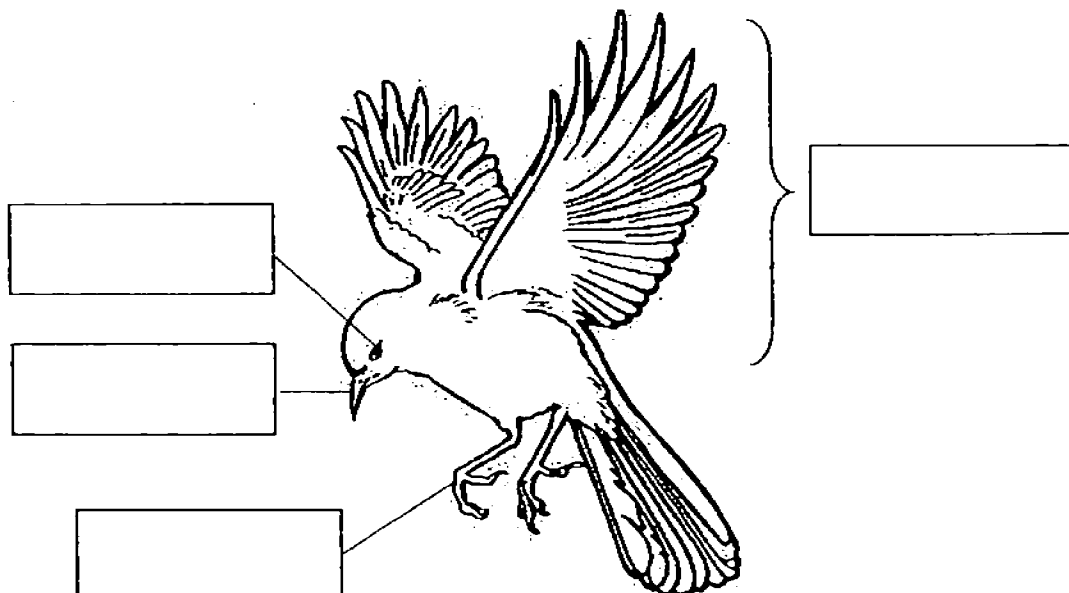
[2]

(i) _____

(ii) _____

- (b) The picture below shows an organism. Label the four parts of the organism by writing in the boxes provided.

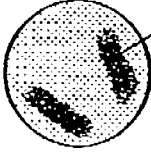
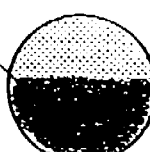
[2]



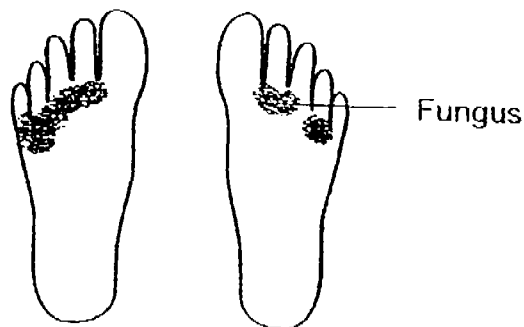
21. Sam sprinkled different amounts of water on a few similar pieces of biscuits and observed the mould growth. He recorded his findings in the table below by shading the amount of mould found on each biscuit after 1 week.

- (a) Predict the amount of mould found in biscuit D by shading in the circle given below.

[1]

Biscuit	A	B	C	D
Amount of water on the Biscuit (units)	5	10	15	20
Amount of Mould found on the Biscuit				

- (b) Sam has a medical condition in which fungus grow on his feet.

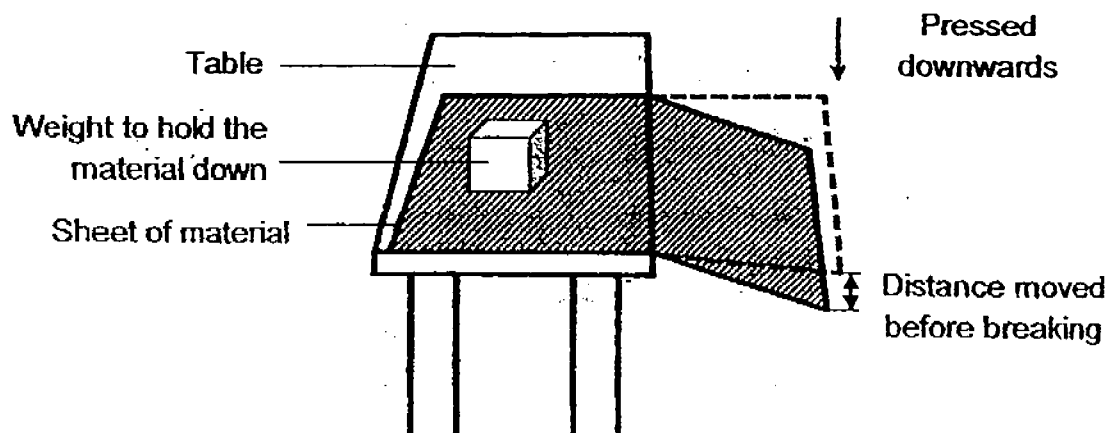


The doctor advised him to dry his feet thoroughly with a clean towel each time his feet get wet.

Explain how drying his feet helps reduce the growth of fungus on his feet. [1]



22. James carried out an experiment to compare the flexibility of 3 different materials, A, B and C, each of the same shape, size and thickness. Each sheet of material was placed over the edge of a table with one end of the sheet pressed downwards as shown below. He measured the distance each sheet of material can be pressed downwards before it breaks.



James recorded his results in the table below.

Material	A	B	C
Distance moved by material before breaking (cm)	10	0	30

- (a) Based on the results shown above, which material, A, B or C, is most suitable for making a swimming jump board? [1]

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

- (c) Suggest what material B is made of. [1]

END OF BOOKLET B

YEAR : 2016
 LEVEL : PRIMARY 3
 SCHOOL : CHIJ ST NICHOLAS GIRLS'
 SUBJECT : SCIENCE
 TERM : SA1

Booklet A

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

Booklet B

Q16

(a)

Group 1:
Living things

Group 2:
Non-living things

(b) Group 2.

Q17

- (a) Yes, it has a stem, leaves, flowers and roots.
- (b) Roots of plant C are above the ground but roots of plant D are below the ground.
- (c) Plant E has a weak stem while plant F has a strong stem.

Q18

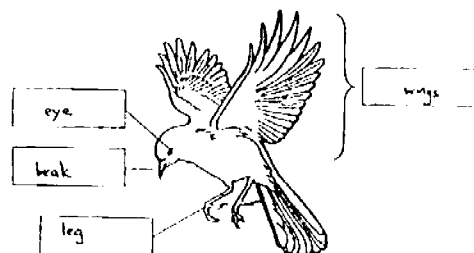
- (a) Plant C is not a flowering plant while plant E is a flowering plant.
- (b) Plant D and F are flowering plants.
- (c) Tomato : D

- Q19 (a) Organism T is not an insect.
It has two body part while an insect have three body parts.
It has eight legs while an insect has six legs.

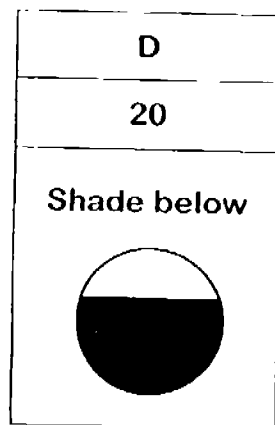
(b) It lay eggs.

- Q20 (a) (i) The salamander lay eggs while the dolphin give birth to its young alive.
(ii) The salamander has moist skin but the dolphin have hair.

(b)



- Q21 (a)



- (b) Fungus needs moisture to grow. If Sam feet is dry, fungus cannot grow on his feet thus, Sam's feet would stop growing fungus.

Q22

- (a) Material C.
(b) Material C is the most flexible as it can be pressed down to the greatest distance without breaking.
(c) Wood.

End