HENRY PARK PRIMARY SCHOOL
2014 SEMESTRAL EXAMINATION 1
SCIENCE
PRIMARY 3

Duration of Paper: 1 h 30 min

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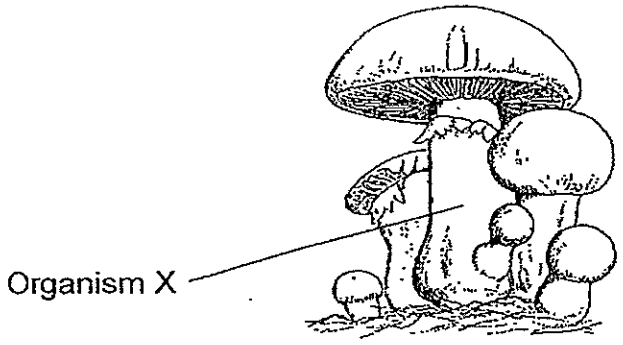
Class: Pr 3 _____

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Section A Multiple-Choice Questions (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) on the Optical Answer Sheet.

1. The diagram below shows Organism X.



Which of the following statements is **correct** about Organism X?

(1) It has leaves.
(2) It hunts for food.
(3) It makes its own food.
(4) It feeds on dead organisms.

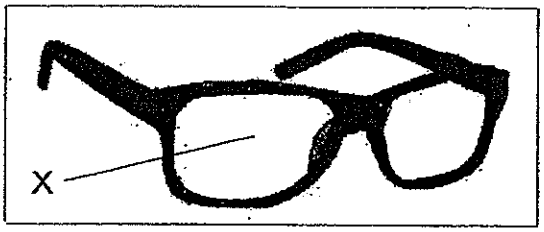
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2. The table below shows some properties of materials, W, X, Y and Z.

Material	Properties
W	Allows light to pass through
X	Does not allow light to pass through
Y	Not waterproof
Z	Breaks easily

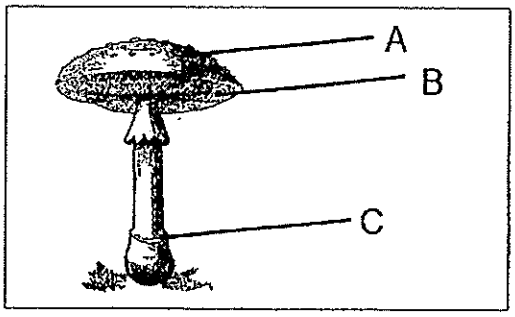
Based on the above properties, which material is **most suitable** for making part X of the spectacles below?



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

( )

3. The fungi shown below, has three parts.



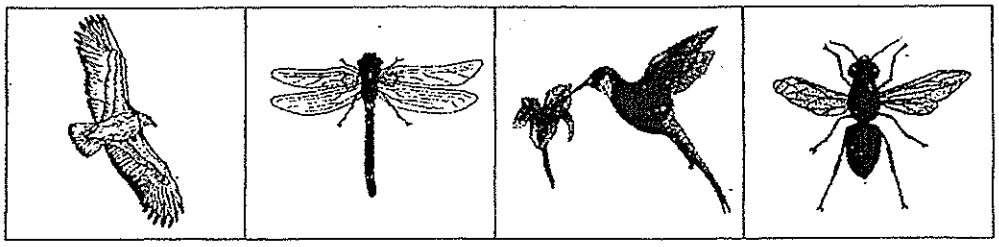
In which one of the following are the parts labelled **correctly**?

	A	B	C
(1)	Cap	Stalk	Gills
(2)	Gills	Cap	Stalk
(3)	Cap	Gills	Stalk
(4)	Gills	Stalk	Cap

( )

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4. Look at the pictures below.



In what way are the above animals similar?

(1) They have wings
(2) They have 2 legs
(3) They have feelers
(4) They have feathers

( )

5. Which one of the following differences between animals and fungi is correct?

	Animals	Fungi
(1)	Cannot make their own food	Can make their own food
(2)	Need water	Do not need water
(3)	Is not a plant	Is a plant
(4)	Do not reproduce using spores	Reproduce using spores

( )

6. A scientist found a new animal and named it **Kihansi**.

He observed **Kihansi** and recorded its characteristics below.

Characteristics of Kihansi

- It hatches from eggs.
- It has moist skin.
- It can live on land and in water.

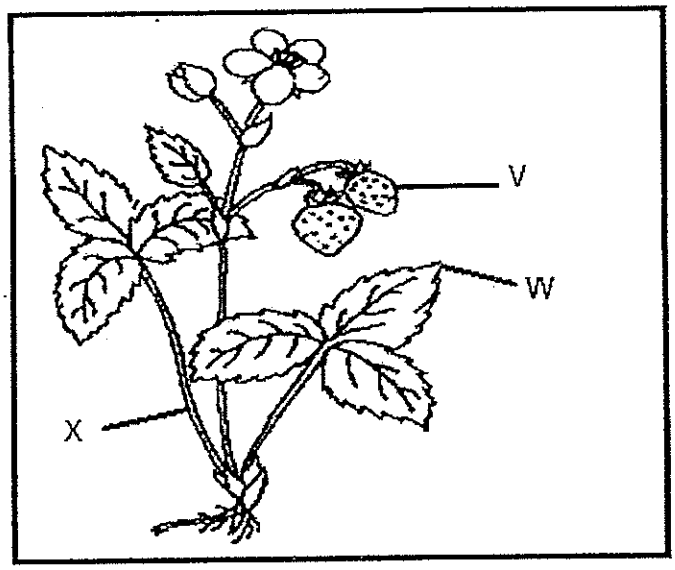
Which group of animals do you think the **Kihansi** is likely to belong to?

(1) Insects
(2) Reptiles
(3) Mammals
(4) Amphibians

( )

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7. The diagram below shows a strawberry plant.

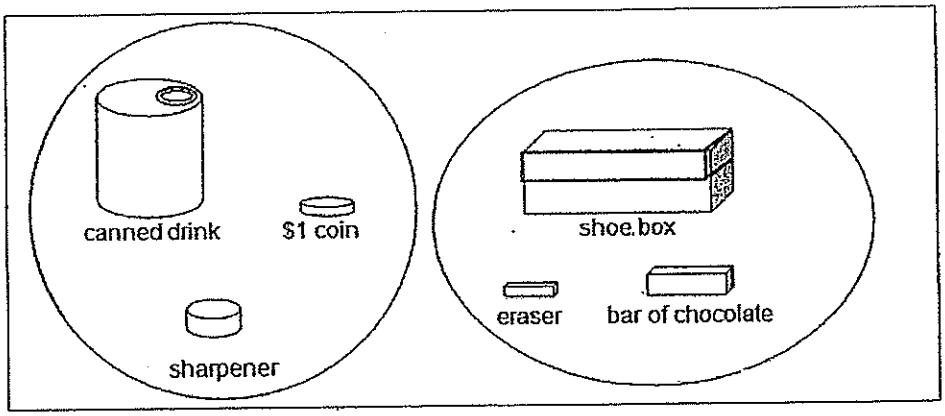


Which of the following is correct?

	V	W	X
(1)	flower	root	leaf
(2)	fruit	leaf	root
(3)	flower	fruit	leaf
(4)	fruit	leaf	stem

( )

8. Look at the classification of some objects below.



Choose the **correct description** on how the objects are classified.

(1) The objects are classified according to their shapes.
(2) The objects in each group do not have any similarity at all.
(3) The objects are placed in the two groups based on their sizes.
(4) The objects are placed in the two groups based on their uses.

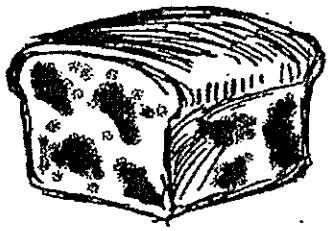
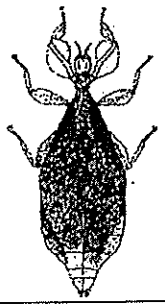
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9. Some observations about a living thing are stated below.

Observations
It produces spores
It does not make its own food
It needs air, water and food to survive

This living thing is likely to be a/an _____.

(1)	Bread Mould 	(2)	Fern 
(3)	Ixora 	(4)	Insect 

( )

10. Which of the following is **NOT** a purpose of classification?

A To mix things up so that there is diversity.
B To make it easy to find the things we want.
C To help us put things in an orderly manner.
D To find similarities and differences in the diversity of living things.

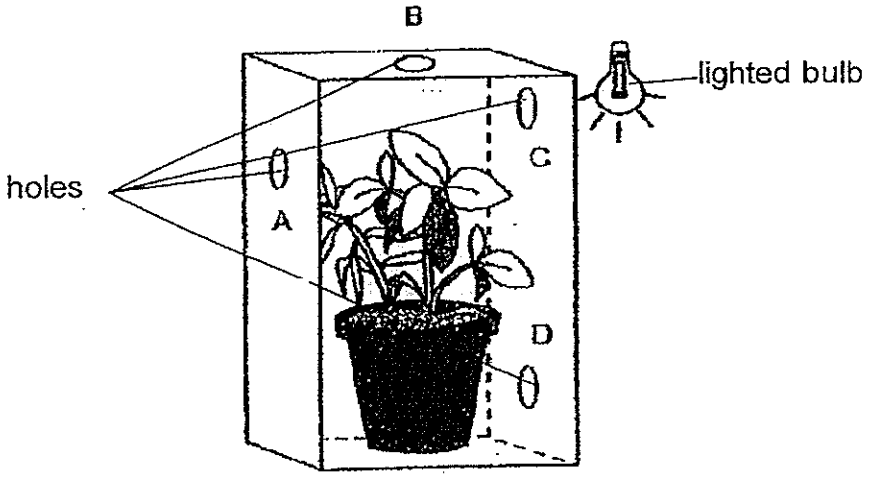
(1) A only
(2) A and B only
(3) B and C only
(4) C and D only

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11. 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.

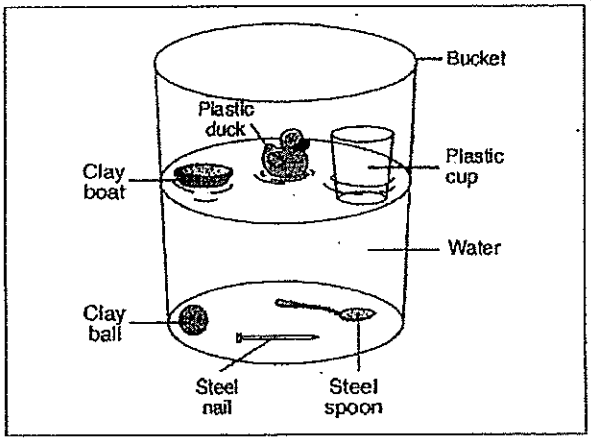


Which one of the holes would the plant **most likely** grow towards?

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

( )

12. The picture below shows some items that were dropped into a bucket of water.



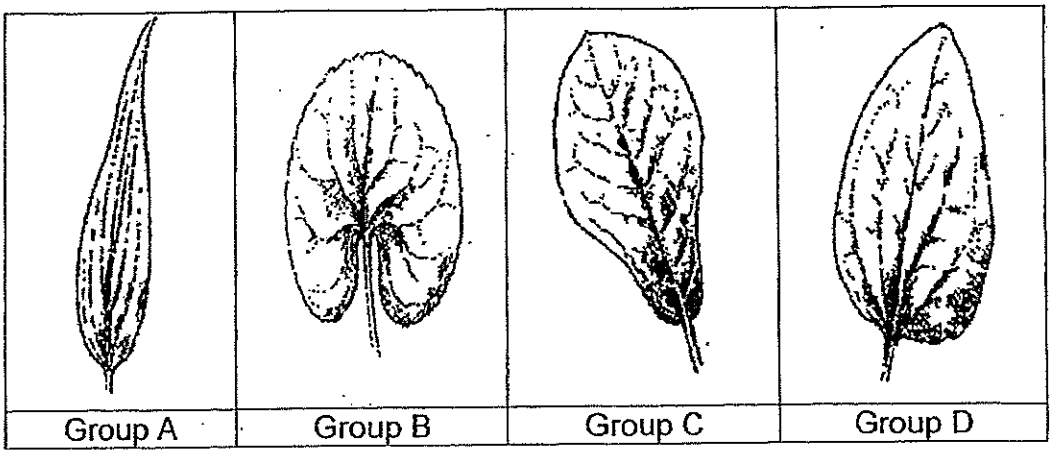
Based on your observation, which statement describes the objects best?

(1) Objects made of steel sink.
(2) Objects made of clay always float.
(3) Objects made of plastic do not float.
(4) The bucket is not made of a waterproof material.

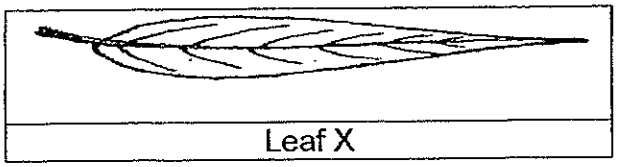
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13. Look at the pictures below.



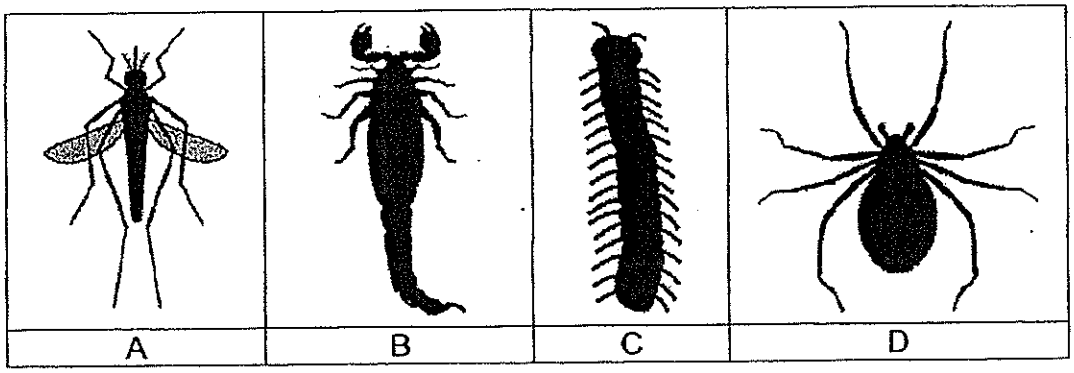
Which group does Leaf X belong to?



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

( )

14. The picture below shows the shadows of various types of living things.



Which of the following is an insect?

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

( )

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15. David planted four balsam plants in 4 similar pots.

He placed the pots under different conditions as shown in the table below.

Plant	Conditions			
	Air	Sunlight	Water	Fertiliser
A	✓	✓	✓	X
B	X	✓	✓	✓
C	✓	X	X	✓
D	X	✓	X	✓

Legend
✓ – present
X – not present

Which of the following plants is likely to live the longest?

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

( )

16. Study the characteristics of organisms X and Y in the table below.

Characteristics	X	Y
Able to make food	No	Yes
Able to grow	Yes	Yes
Can reproduce	Yes	Yes
Need air, food and water	Yes	Yes

What can Organisms X and Y be respectively?

	X	Y
(1)	Bird's nest fern	Rose plant
(2)	Hamster	Mushroom
(3)	Butterfly	Bird's nest fern
(4)	Rose plant	Tomato plant

( )

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17. Study the chart below.

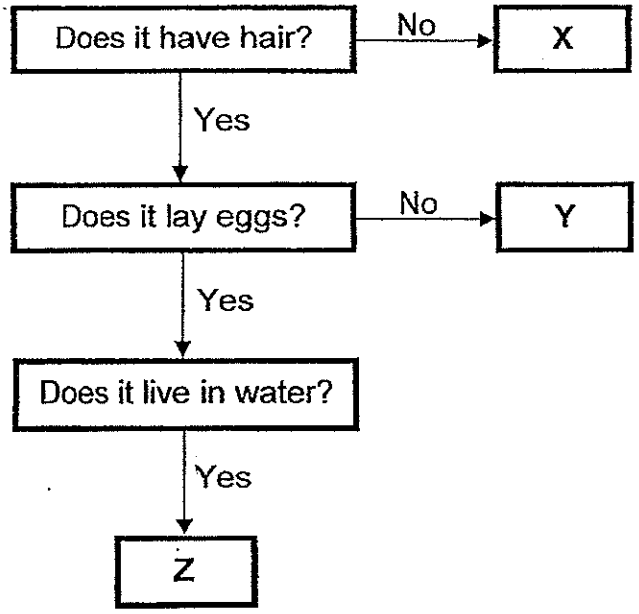
Group E	Group F
	

Which one of the following makes a suitable heading for Group E and Group F?

	Group E	Group F
(1)	land plant	water plant
(2)	poisonous plant	non-poisonous plant
(3)	flowering plant	non-flowering plant
(4)	non-flowering plant	flowering plant

( )

18. Sam observed three animals and drew the following chart.



Which of the following is **NOT** likely to be a mammal?

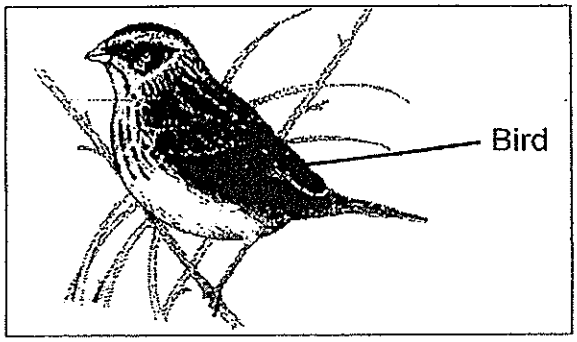
(1) X only
(2) Y only
(3) X and Y only
(4) Y and Z only

( )

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19. Sam observed a bird at the Jurong Bird Park.

He wanted to find out if the bird is a living thing.



Sam performed a simple test and recorded his observation and conclusion below.

What I did
I clapped my hands loudly.
My observation
The bird flew away.
My conclusion
The bird is a living thing.

Why did Sam conclude that the bird was a living thing?

(1) It grew.
(2) It reproduced.
(3) It responded to change.
(4) It needed air, food and water.

( )

20. Study the classification table below.

Things	
Living thing	**Non-living thing**
X	Y

Which one of the following statements about X and Y is **not** correct?

(1) X can grow.
(2) X can reproduce.
(3) Y can move on its own.
(4) X needs air, food and water.

( )

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Section B: Structured Questions (16 marks)

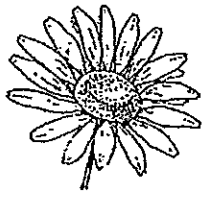
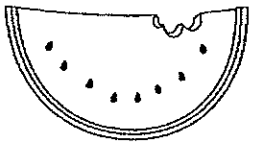
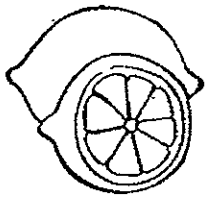
For each question from 21 to 27, write your answers in the spaces given.

21. Look at the table below.

Tick (✓) in the respective 'True' or 'False' columns for the following statements. [1m]

	Statement	True	False
a)	Mould is a non-flowering plant.		
b)	Some fungi can be eaten.		

22. The diagrams below show two groups of **plant parts**.

Group A		Group B	
			
Hibiscus	Daisy	Watermelon	Lemon

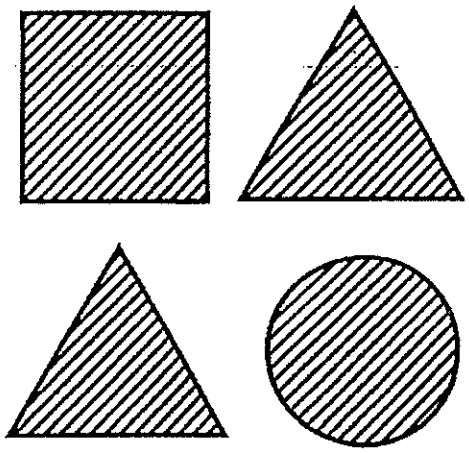
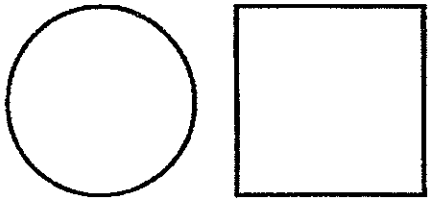
Write suitable headings for Group A and Group B. [2m]

Group A:_____

Group B:_____

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23. Observe the shapes below.

Group J	Group K
	

a) The shapes shown above are classified into 2 groups. [2m]

How are they classified?

Group J: Shapes that are _____

Group K: Shapes that are _____

b) How can we classify the same shapes above into **3** groups, **A**, **B** and **C**? [3m]

Write a suitable heading for each group.

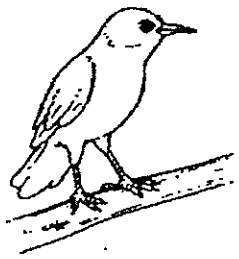
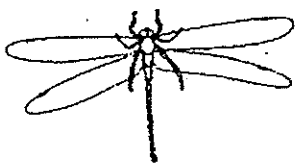
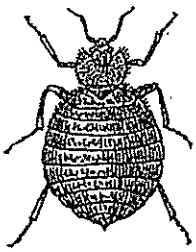
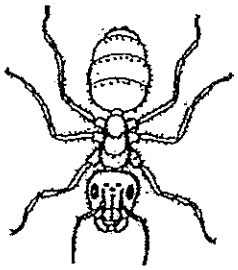
Group A: _____

Group B: _____

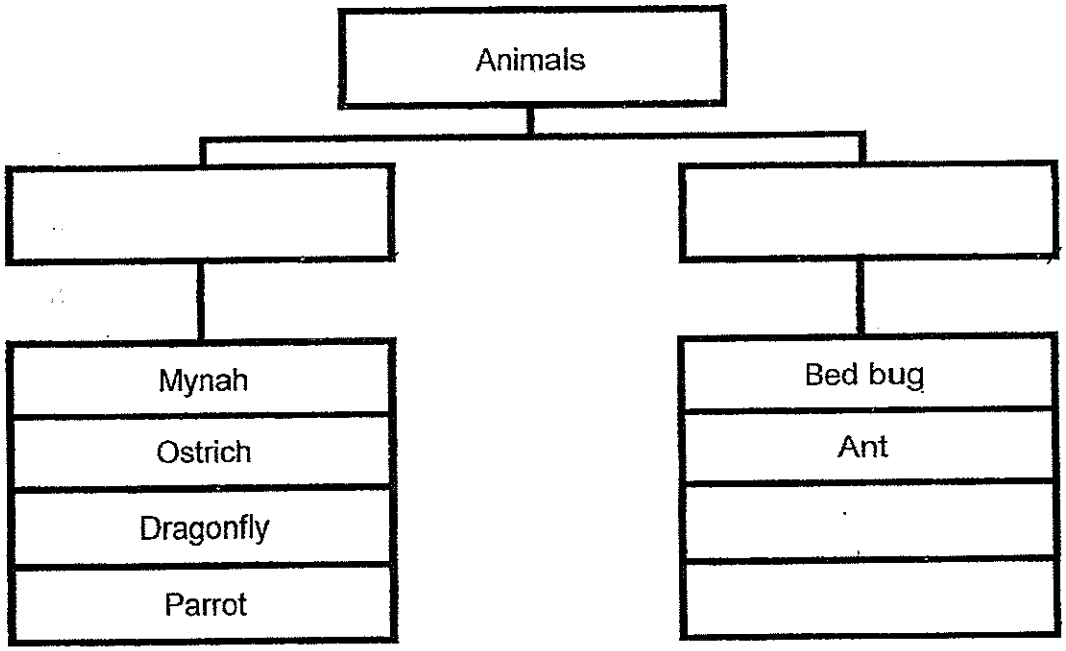
Group C: _____

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24. Observe the six animals below carefully.

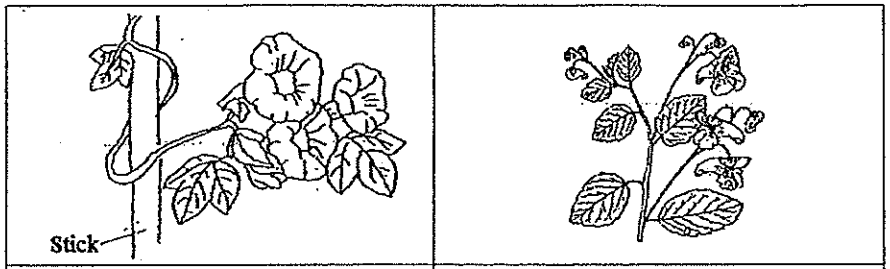
		
Mynah	Ostrich	Dragonfly
		
Bed bug	Parrot	Ant

Write suitable headings for the two groups in the boxes below. [2m]



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25. Study the pictures below and fill in the blanks with suitable words from the box provided. [2m]

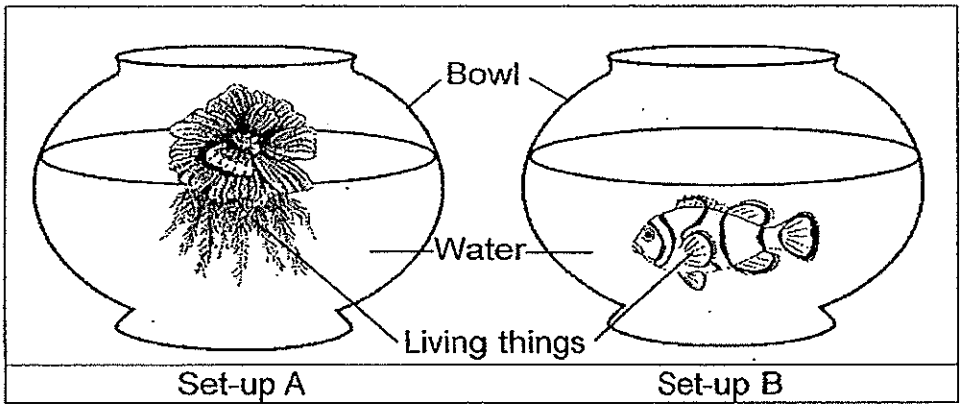


weak	support	shade	strong

The morning glory plant climbs on the stick so that it can grow towards the sunlight. The function of the stick is to provide (a)_____to the plant as it has a (b) _____ stem.

26. Sam placed Set-ups A and B, shown below, by the window.

The living things in both set-ups received only water and sunlight for a week.

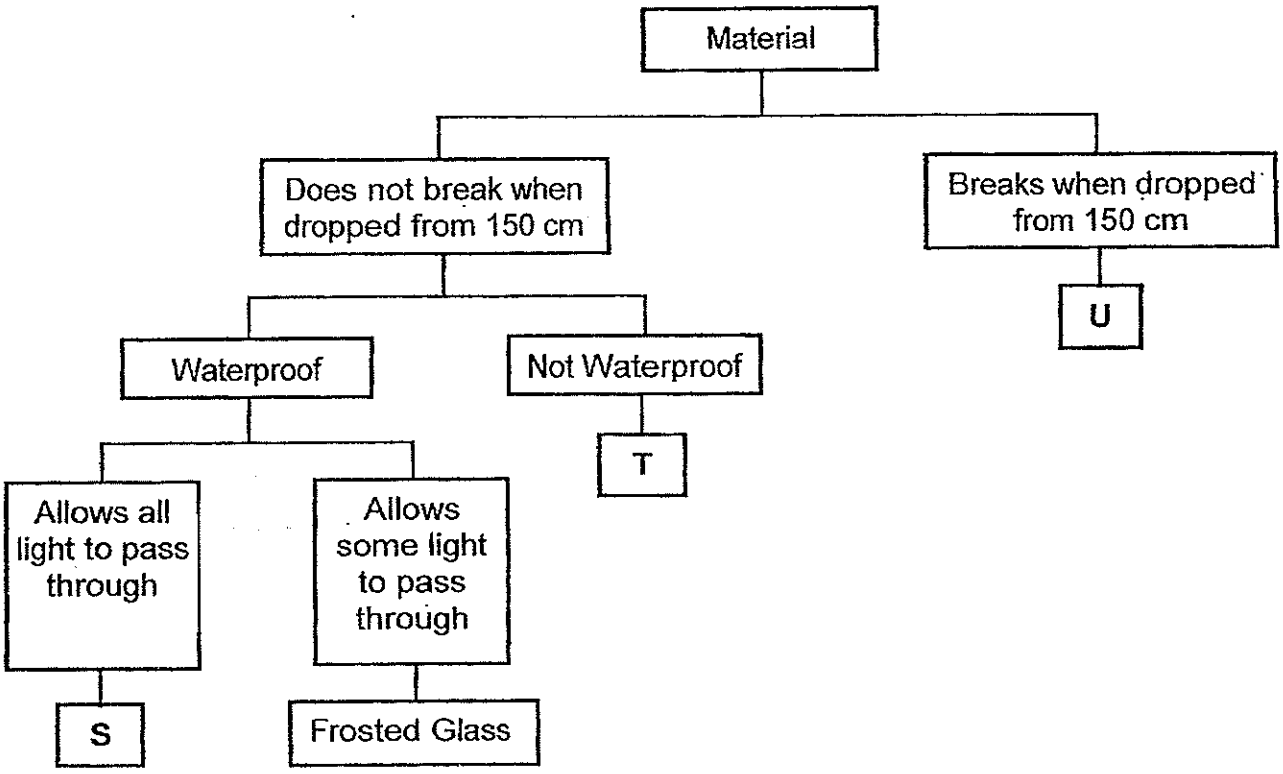


Tick (✓) in the respective 'True' or 'False' columns for the following statements. [1m]

	Statement	True	False
a)	After 1 week, the living thing in set-up **A** was still alive.		
b)	After 1 week, the living thing in set-up **B** was still alive.		

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27. The classification chart below is used to classify three materials S, T and U.



Based on the classification chart above, **write** the alphabets, **S**, **T** or **U** in the correct boxes below. *Use each alphabet once.* [3m]

	Object	Material used to make the object
a)	Clear Plastic File	
b)	Paper Towel	
c)	Glass Cup	

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24

Section C: Open-Ended Questions (24 marks)

For each question from 28 to 35, write your answers in the spaces given.

28. Observe the two types of organisms below.



Organism S



Organism T

a) State **one similar characteristic** between the Organisms S and T. [1m]

_____

_____

b) John classified Organisms S and T as plants. Is John correct? Explain why. [1m]

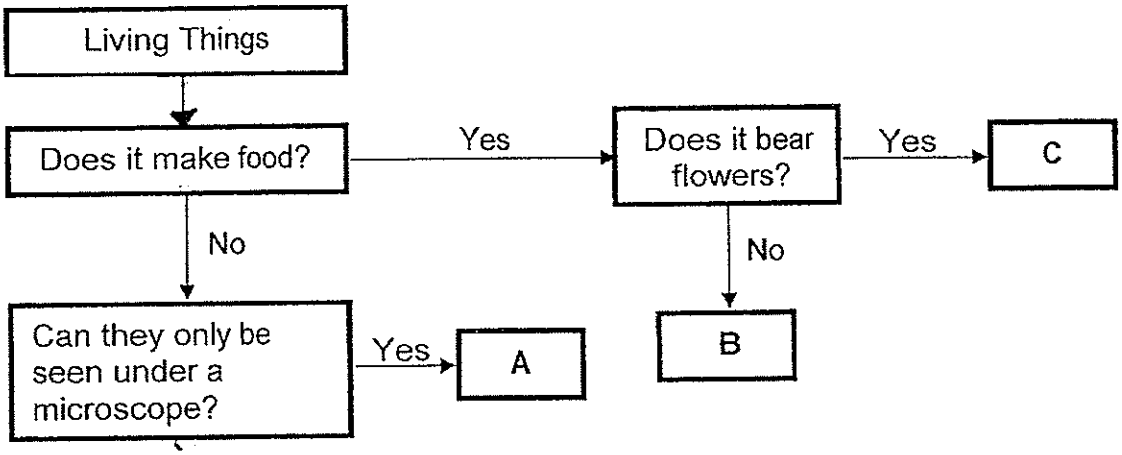
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29. Study the flow chart about some living things.



a) From the chart above, **describe** two characteristics of Living Thing C. [2m]

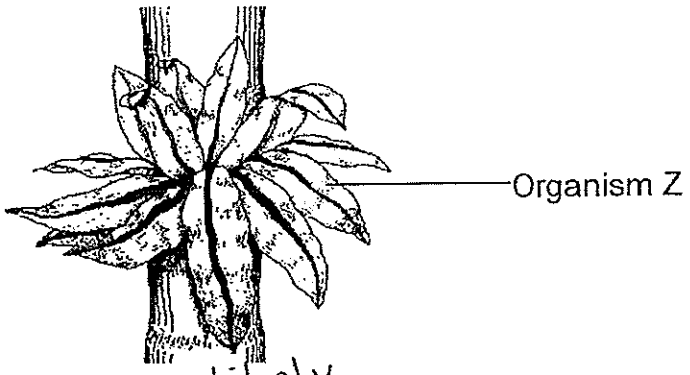
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_____

b) Which of the living things, A, B or C, is a **bacteria**? [1m]

_____

c) Look at Organism Z shown below.



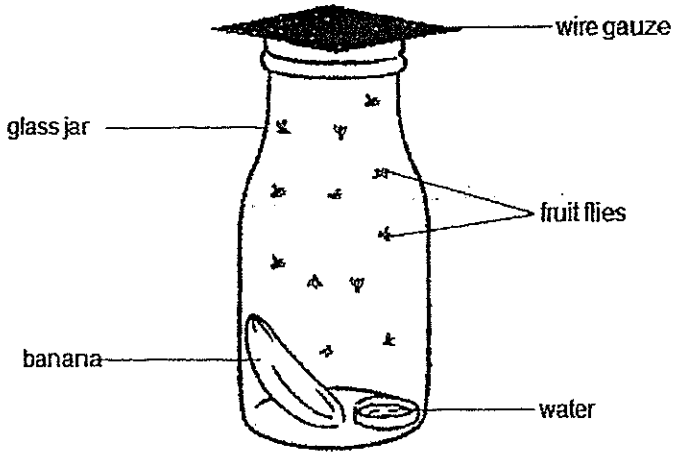
Which living thing, A, B or C is Organism Z likely to be? [1m]

likely

_____

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30. Maran observed some fruit flies in a glass jar for 10 days.



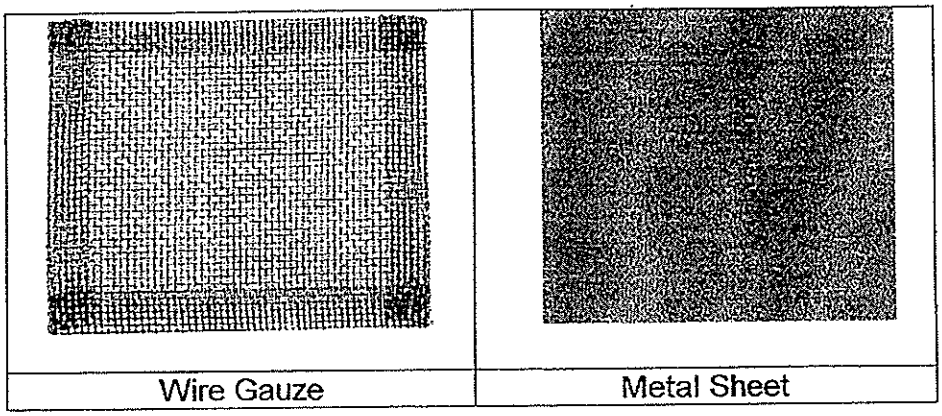
a) **Match** Maran's observations on the left to the conclusions on the right [2m]

Observation	Conclusion
There were more fruit flies in the glass jar after 10 days.	The fruit flies need food and water.
They were feeding on the banana and water.	The fruit flies can reproduce.
Some fruit flies were bigger in size after 10 days.	The fruit flies respond to changes.
When a torch was shone at the glass jar, the fruit flies flew towards the light.	The fruit flies can grow.

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Q30 continued

b) The diagrams below show a wire gauze and a metal sheet



Wire Gauze	Metal Sheet

Maran used the wire gauze to cover the jar so that the fruit flies will live longer.

Explain why the fruit flies live longer when the wire gauze is used. [2m]

_____

_____

31. Professor Albert conducted an experiment to find out how different conditions affect the growth of bacteria.

The results of the experiment are shown in the table below.

Condition	Growth of Bacteria		
	Day 1	Day 3	Day 5
A	•	••	•••
B	-	-	•
C	•	•	•

Legend

- none • very little growth •• some growth ••• a lot of growth

Using the results from the table, answer the following questions.

a) Which type of condition, A, B or C, best supports the growth of bacteria? [1m]

_____

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Q31 continued

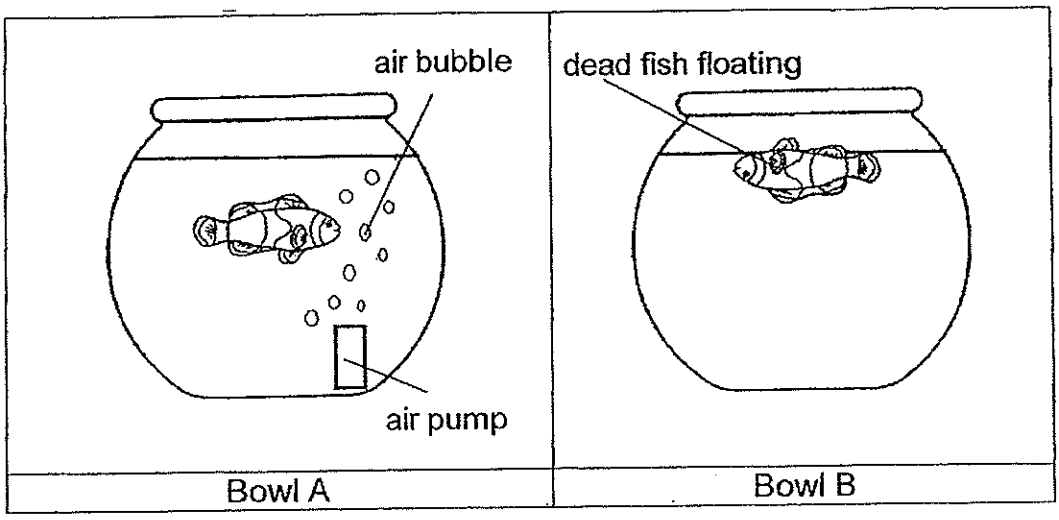
b) Name the instrument Professor Albert should use to observe the growth of bacteria. Give a reason for vour answer. [2m]

_____

_____

32. Shiqi placed 2 fish into 2 fish bowls.

The next day, she noticed that the fish in Bowl A is still swimming while the fish in Bowl B is has died.



a) Explain why the fish in Bowl B died. [1m]

_____

_____

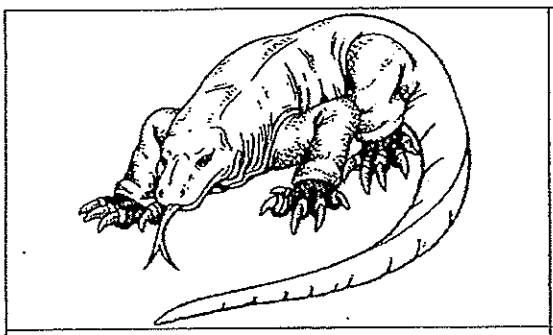
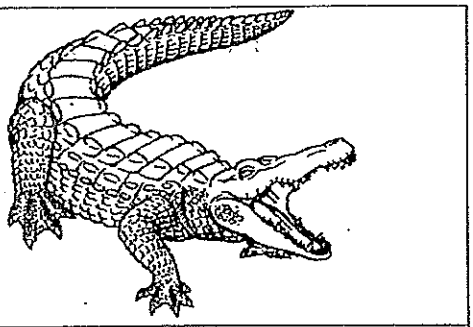
b) What characteristic does the above experiment show about living things? [1m]

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33. Jayden went to the zoo and saw Animal X, shown below, moving on the ground.

He noticed that the body covering of the animal looked very similar to the crocodile that he saw earlier.

	
Animal X	Crocodile

a) Name the body covering of Animal X. [1m]

_____

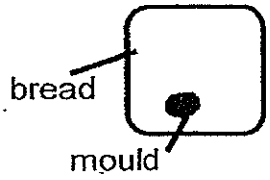
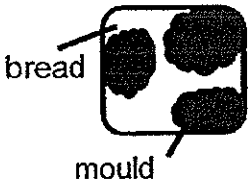
b) Jayden was then asked to classify Animal X in his school worksheet.

Which animal group would he classify Animal X? [1m]

_____

34. Nathan wanted to find out <u>if the location where the bread was placed will affect the growth of bread mould</u>.

He added the same amount of water to two pieces of bread. The results of the experiment are shown in the table below.

Setup	A	B
Amount of water added	2 ml	2 ml
Location	Open soccer field	In a dark cupboard
Appearance of bread after 2 weeks		

a) What can Nathan conclude from the results of the experiment? [1m]

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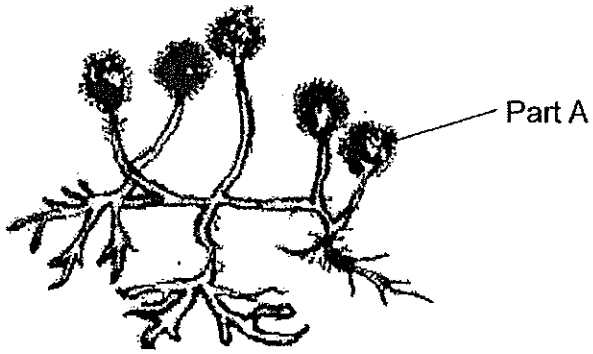
Q34 continued

b) Other than the location of bread in each setup, name **ONE** other factor that could have caused the mould to grow on the bread. [1m]

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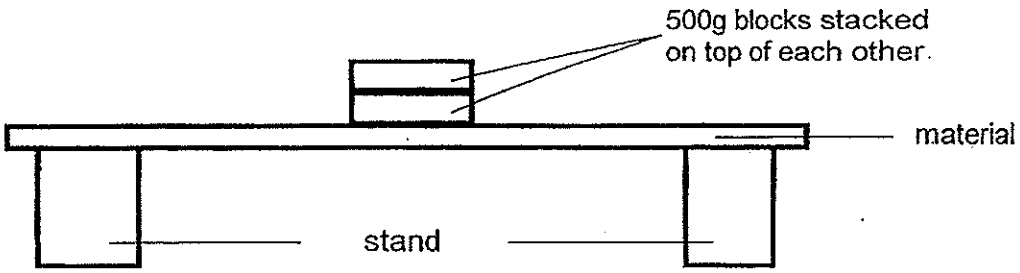
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c) Look at the bread mould shown below. Name part A. [1m]



Part A: _____

35. Professor Zuraidah wants to investigate the strengths of 4 materials A, B, C and D.



	Material A	Material B	Material C	Material D
Number of blocks that cause the material to break	1	50	6	20

a) Which material is the **least** strong? Explain your answer. [2m]

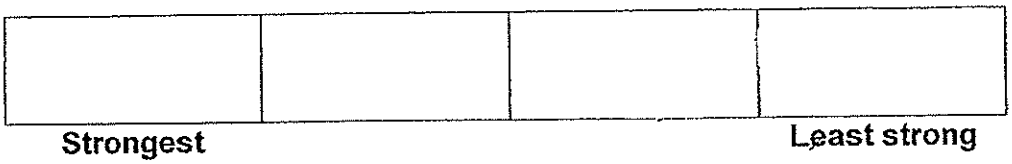
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Q35 continued

b) Arrange Materials A,B, C and D according to their strength. Start from the strongest to the least strong. [2m]



- End of paper -

Setters: Mr Muhammad Sadhiq
Mdm Nadia Abu Bakar
Mr Nelson Tong Meng Yang

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Year: 2014

Level: Primary 3

School: Henry Park Primary School

Subject: Science

Semester: SA1

Section A:

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

Section B:

Q21)

	Statement	True	False
a)	Mould is a non-flowering plant.		✓
b)	Some fungi can be eaten.	✓	

Q22) Group A: Flowers of the plant

Group B: Fruits of the plant

Q23) Group J: Shaded

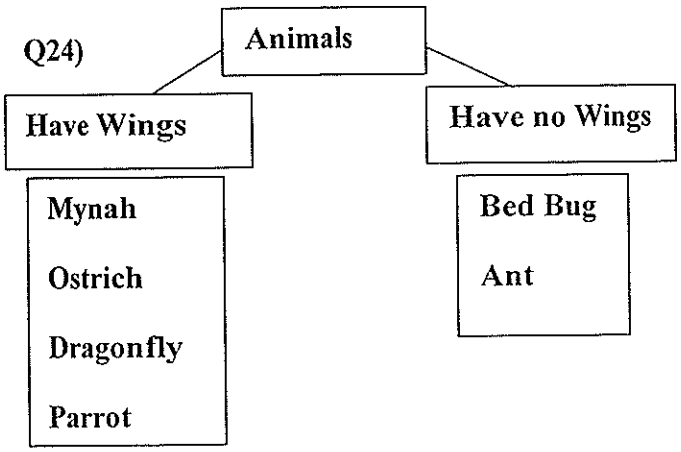
Group K: not shaded

b) Group A: No sides

Group B: Three sides

Group C: Four sides

Q24)



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Q25) a) support

b) weak

Q26)

	Statement	True	False
a)	After 1 week, the living thing in set-up A was still alive.	✓	
b)	After 1 week, the living thing in set-up B was still alive.		✓

Q27) a) S

b) T

c) U

Q28) a) They reproduce by spores.

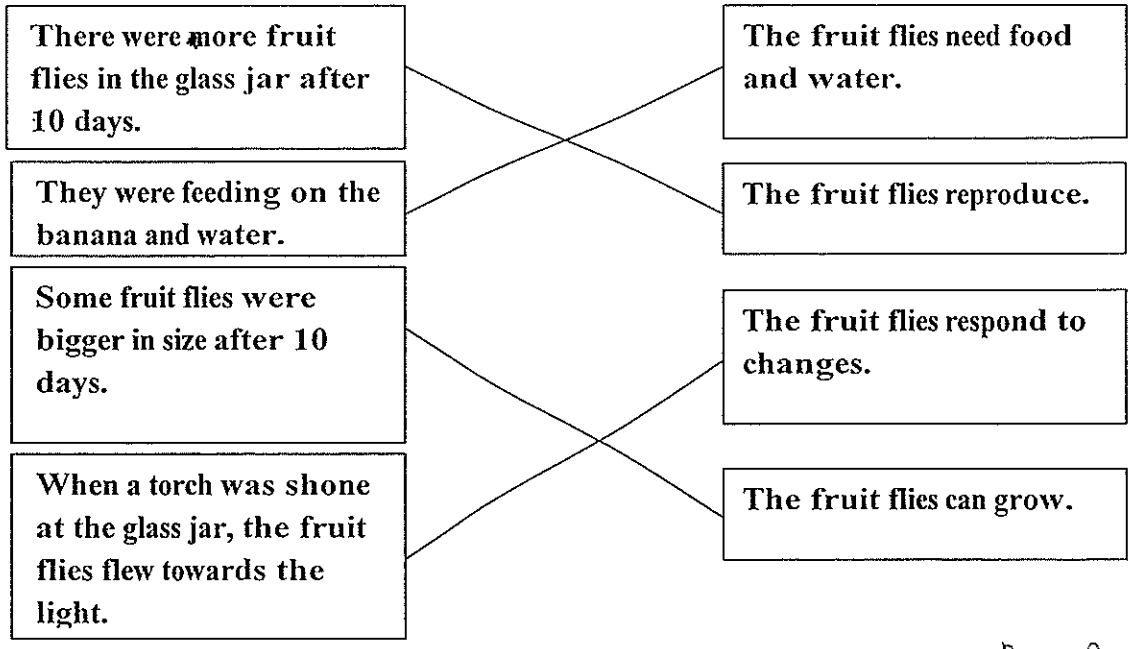
b) John is not correct. Organism T is not a plant and it is a fungi as it does not make its own food.

Q29) a) Living thing C can make its own food and it bears flowers.

b) Living thing A is a bacteria.

c) Living thing B is likely to be organism Z.

Q30) a) Observation



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b) The wire gauze has holes to allow air to go into the jar for the fruit flies to breath in the air and live longer but the metal sheet has no holes for air for the fruit flies to enter.

Q31) a) Condition A best supports the growth of bacteria.

b) Professor Albert should use the microscope to observe the growth of bacteria. Professor Albert cannot use his naked eye to see the growth of bacteria.

Q32) a) Shiqi did not put the air pump in bowl B and the fish air to breath in so it will die.

b) Living things need air to survive.

Q33) a) The body covering of animal X is scales.

b) He would classify animal X as a reptile.

Q34) a) Mould grows faster in a dark cupboard than an open field.

b) The bread was sprinkled with water so the mould will grow on the bread.

c) Spore bag

Q35) a) Material A is the least strong. It can hold the least number of blocks before it breaks.

b) B, D, C, A

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