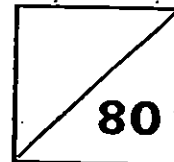




**HENRY PARK PRIMARY SCHOOL  
2015 SEMESTRAL EXAMINATION 1  
SCIENCE  
PRIMARY 3**



Duration of Paper: 1 h 30 min

Name: \_\_\_\_\_

Class: Pr 3 \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

**Section A Multiple-Choice Questions (40 marks)**

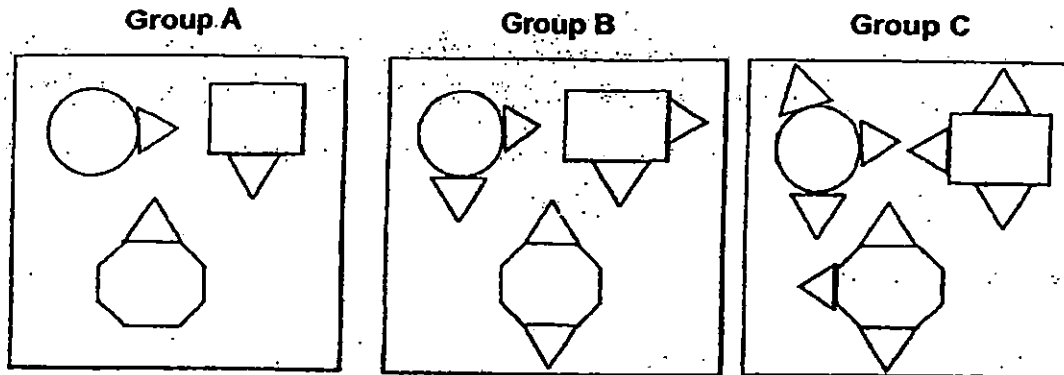
For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which of the following about plants and animals is correct?

- (1) Both will grow and die.
- (2) Both give birth to their young.
- (3) Both can move from one place to another.
- (4) Both depend on other living things for food.



2. Study the groups of objects in the pictures below.



The objects in the pictures are grouped according to the \_\_\_\_\_.

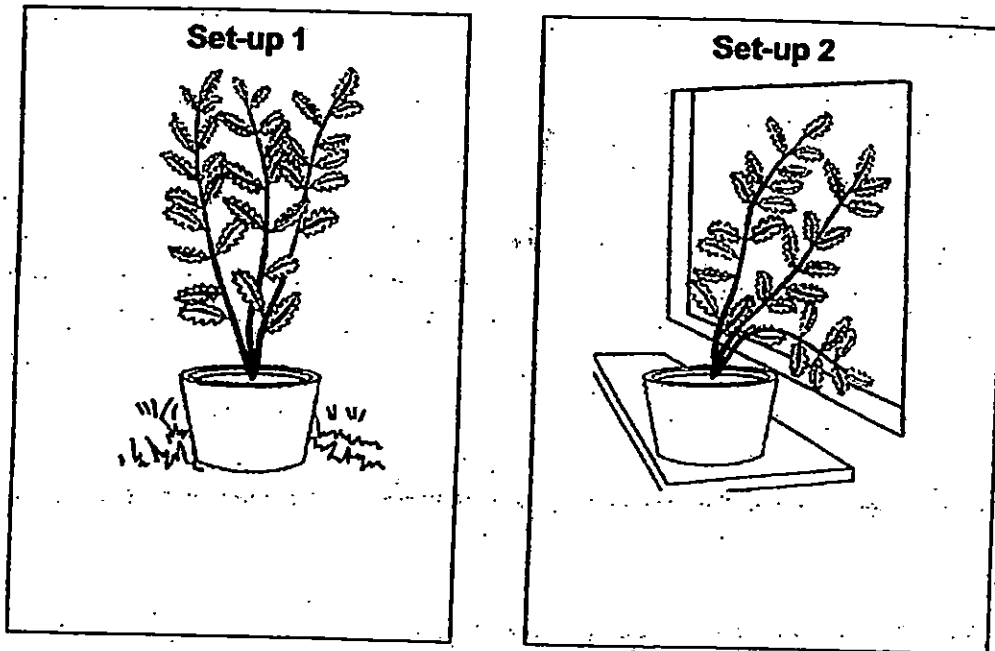
- (1) number of circles
- (2) number of triangles
- (3) size of the triangles
- (4) size of the rectangles

( )



3. Brenda used two similar plants in Set-ups 1 and 2.

Set-up 1 was placed in an open field while Set-up 2 was placed beside an open window. The pictures below show the plants after one week.

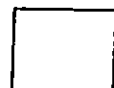


Based on the pictures, what can Brenda observe about the characteristic of the plant in Set-up 2?

The plant \_\_\_\_\_.

- (1) can die
- (2) needs air
- (3) can reproduce
- (4) responds to changes around it

( )

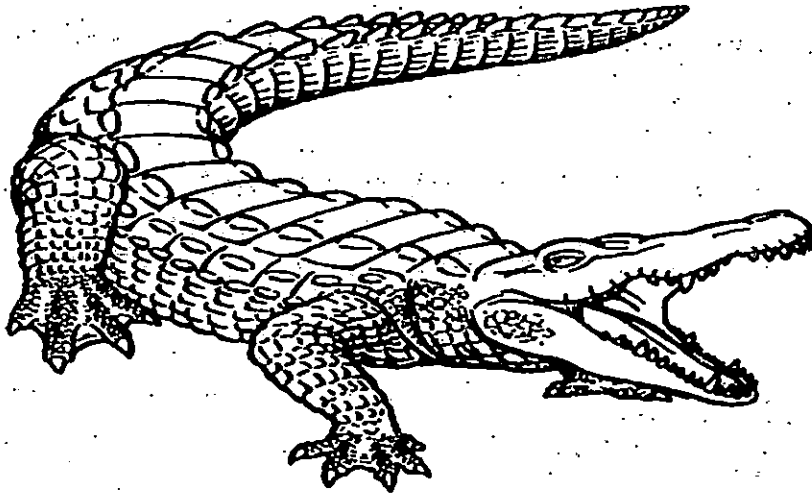


4. The table below shows the characteristics of four animals, A, B, C and D.  
 (✓) means the animal has the characteristic and (X) means it does not.

Which animal is most likely a bird?

	Animal	Has fins	Has hair on its body	Reproduce by laying eggs	Live in water
(1)	A	X	✓	X	✓
(2)	B	✓	X	✓	✓
(3)	C	X	✓	X	X
(4)	D	X	X	✓	X

5. Look at the animal shown below.



Based on the diagram above, which of the following characteristics of the animal is correct?

- (A) It has a tail.
- (B) It lives underground.
- (C) It has scales as an outer covering.
- (D) It feeds on both animals and plants.

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

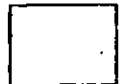


6. Which of the following characteristics do insects have in common?

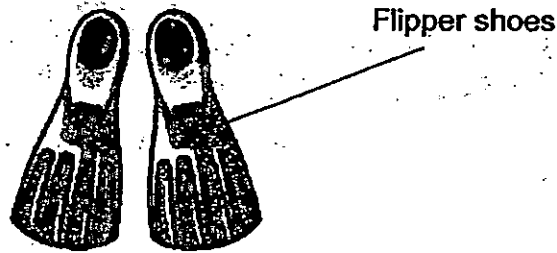
- A. They have six legs.
- B. They have feelers.
- C. They have three body parts.

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

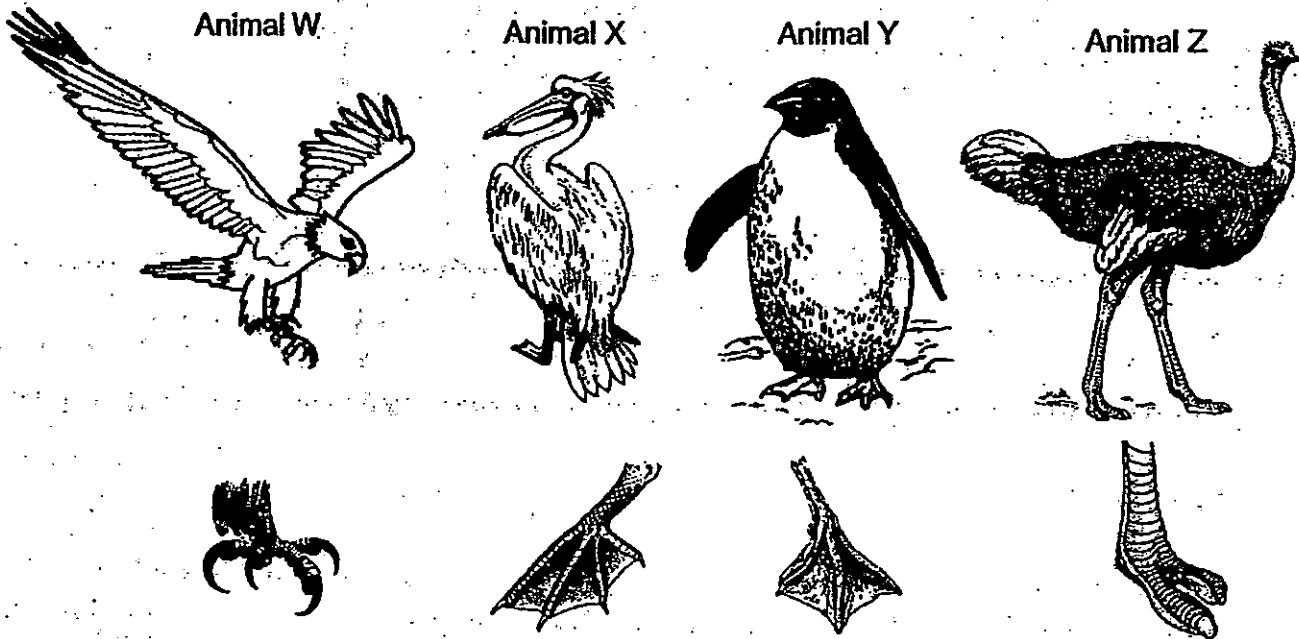
( )



7. Megan used a pair of flipper shoes as shown below to help her swim in water.



She then observed some birds shown in the diagrams below.  
She noticed that their feet help the birds to move about in their environment.



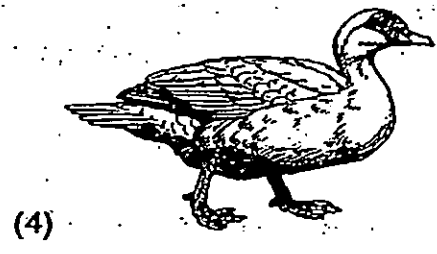
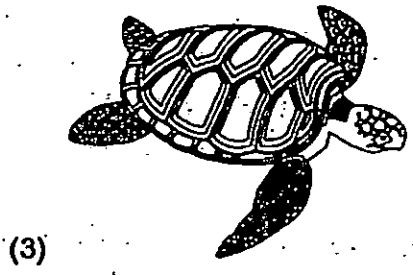
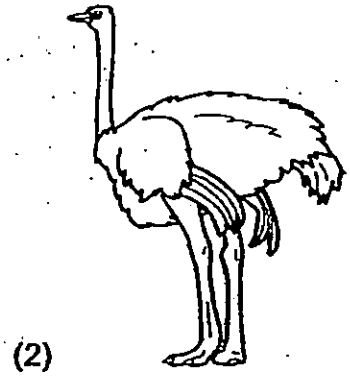
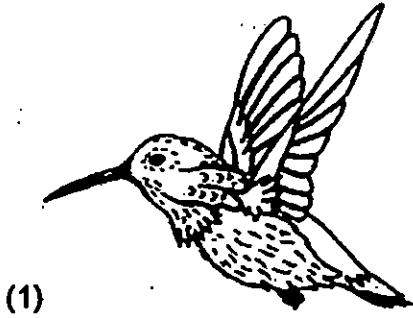
Observe the animals' feet carefully.

Which of the animals' feet above are able to help them swim in water?

- (1) Animal W only
- (2) Animal X and Y only
- (3) Animal W and Z only
- (4) Animal X, Y and Z only



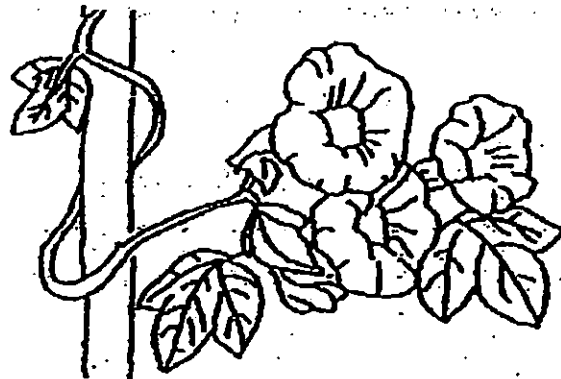
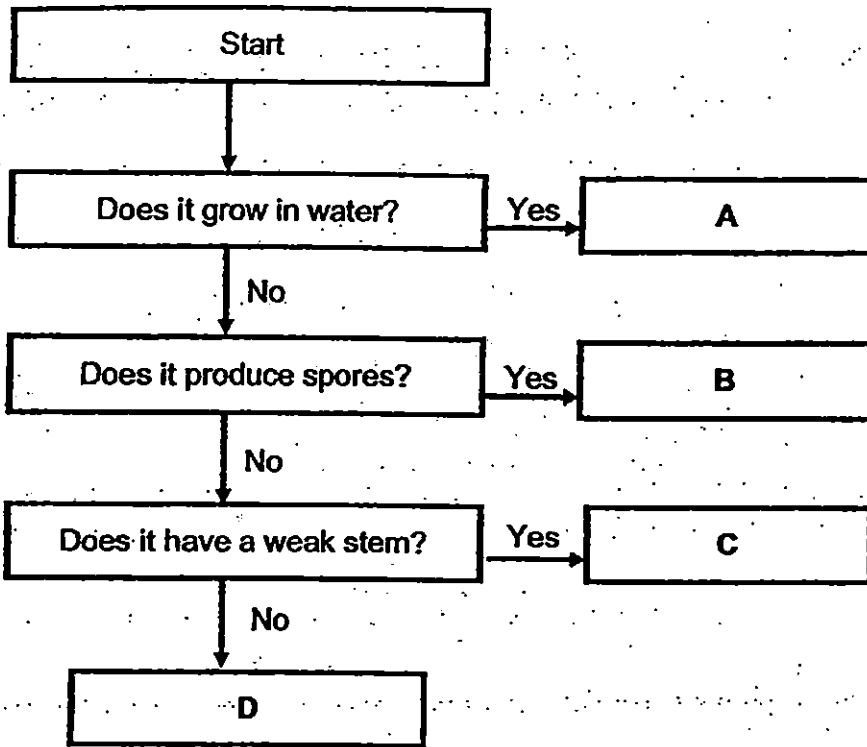
8. Which one of these animals has a **different** outer covering compared to the rest?



( )



9. Study the flow chart and plant X shown below:



Plant X

Which of the following most likely represents plant X?

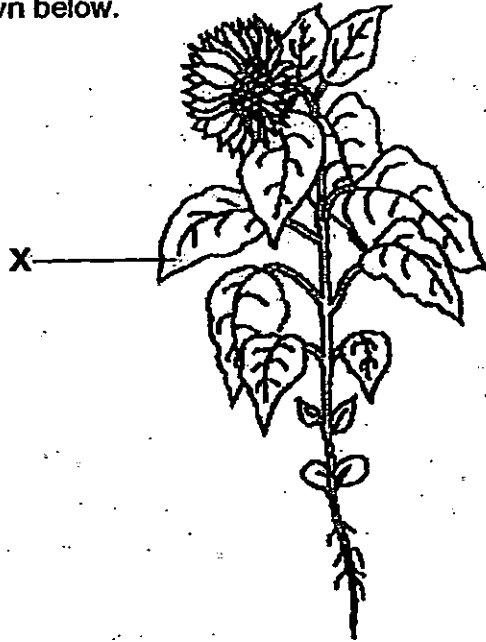
- (1) A
- (2) B
- (3) C
- (4) D

( )





10. Study the plant shown below.



Which of the following represents X?

- (1) Leaf
- (2) Stem
- (3) Root
- (4) Flower

( )

11. Four similar plants A, B, C and D, are given the conditions shown in the table below.

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

(✓ - Condition is given)

Which plant is likely to survive?

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

( )



12. Ahmad wanted to find out if plants can grow without sunlight.

He put Plant X near his window where it received lots of sunlight and Plant Y in a dark cupboard.

Ahmad watered both plants regularly.

Which of the following is Ahmad likely to observe after a few months?

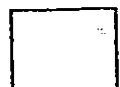
	Plant X	Plant Y
(1)	Alive	Alive
(2)	Alive	Dead
(3)	Dead	Alive
(4)	Dead	Dead

13. Study the table below.



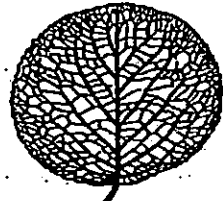

Organism	Reproduces by spores	Makes its own food
A		✓
B	✓	
C	✓	✓

Which organism is likely to be a flowering plant?

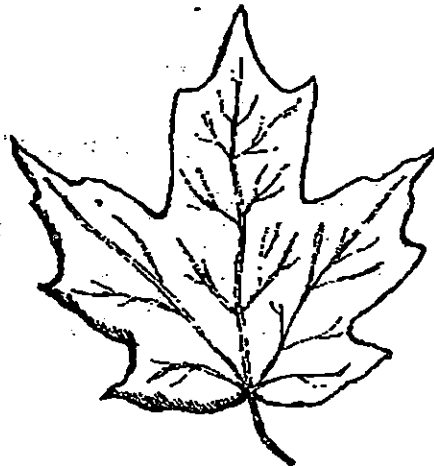
- (1) A only
- (2) B only
- (3) A and C only
- (4) B and C only



14. Mei Ling observed some leaves found in her school.  
She classified the leaves according to their shapes as shown below.

Group			
A	B	C	D
			

Mei Ling then saw Leaf Z as shown below.



Leaf Z.

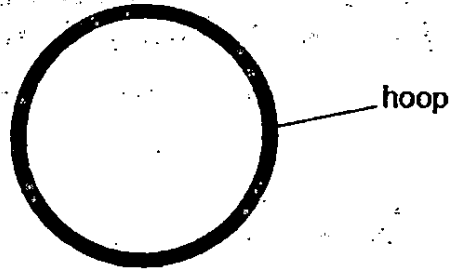
In which group should Mei Ling classify Leaf Z?

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

( )



15. Mr. Yuan wanted to use a **flexible** and **waterproof** material to make a hoop for his young daughter to play with.



Which of the following is the most suitable material to make the hoop?

- (1) Glass
- (2) Metal
- (3) Plastic
- (4) Ceramics

( )

16. Four children can touch and smell an object inside a bag, but they cannot see it.

Which of the following is **NOT** an observation about the object?

- (1) **Ben:** The object has a bump on it.
- (2) **Dev:** The object smells like peppermint.
- (3) **Malek:** I hope that the object is a candy.
- (4) **Ravi:** The object is flat at one end and round at the other.

( )



17. Which of the plants shown below is likely to be a non-flowering plant?



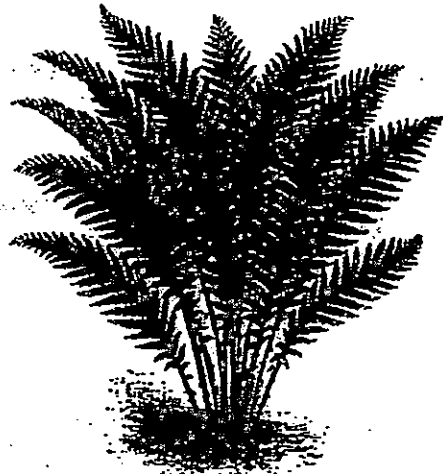
(1)



(2)



(3)

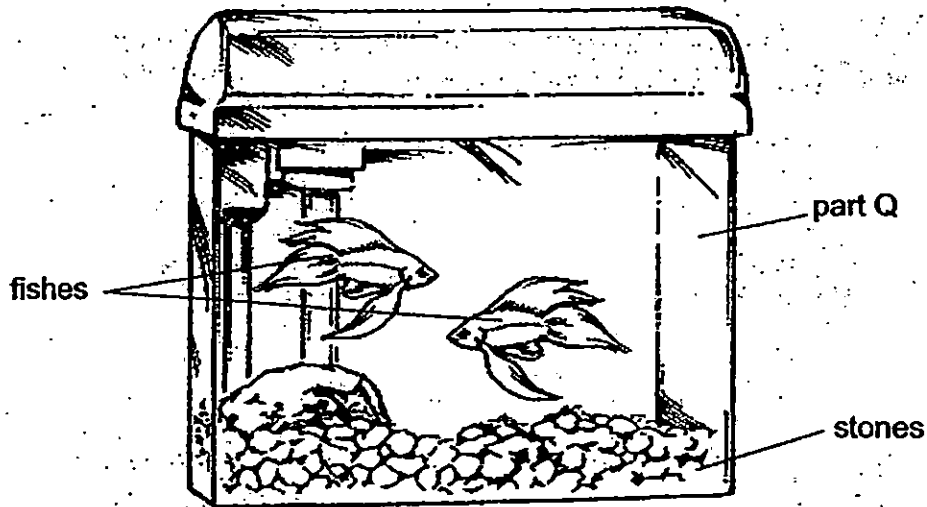


(4)

( )



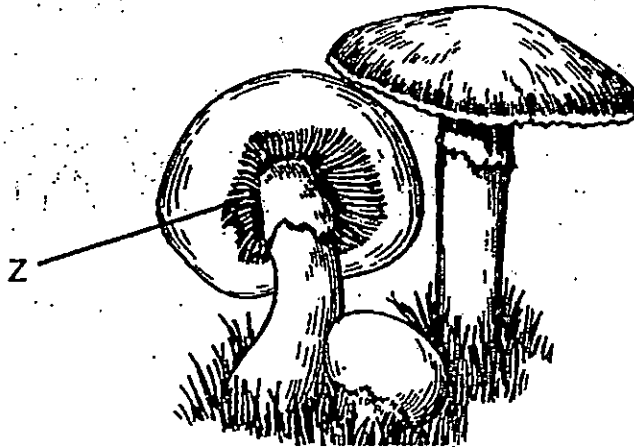
18. Observe the diagram of a fish tank below. Part Q is usually made of thick pieces of glass.



Which one of the following is the most likely reason for choosing glass to make part Q?

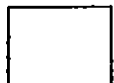
- (1) It is heavy.
- (2) It breaks easily.
- (3) It sinks in water.
- (4) It allows light to pass through it.

19. The diagram below shows a mushroom.



What can be found in the part labelled 'Z'?

- (1) Food
- (2) Seeds
- (3) Spores
- (4) Bacteria



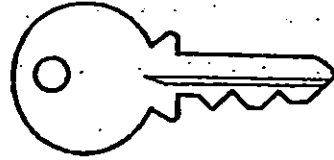
20. Which of the following things is made from a plant?

(1)



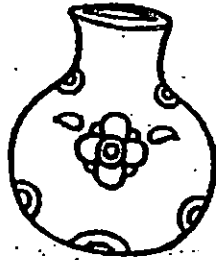
Cotton Shirt

(2)



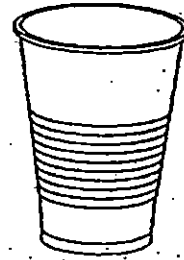
Metal Key

(3)



Ceramic Vase

(4)



Plastic Cup

( )



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2015 SEMESTRAL EXAMINATION 1  
SCIENCE  
PRIMARY 3**

Name: \_\_\_\_\_

Class: Pr 3 \_\_\_\_\_

**Section B: Structured Questions (16 marks)**

For each question from 21 to 28, write your answers in the spaces given.

21. Nick has three things, R, S and T, in her kitchen. She observed them for a three weeks and described their characteristics in the table below.

	R	S	T
Does it grow?	Yes	No	Yes
Does it need food?	Yes	No	Yes
Does it move from one place to another?	Yes	Yes	No

- (a) Which of the things(s) R, S or T could possibly be a living thing?

[1m]

\_\_\_\_\_

- (b) Which one of the things, R, S or T could possibly be a plant?

[1m]

\_\_\_\_\_

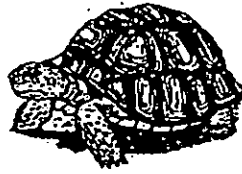




22. The diagrams below show animals P, Q, R and S.



Animal P



Animal Q



Animal R



Animal S

(a) Based on the pictures above, write P, Q, R or S under the correct headings below.

[1m]

Can fly	Cannot fly

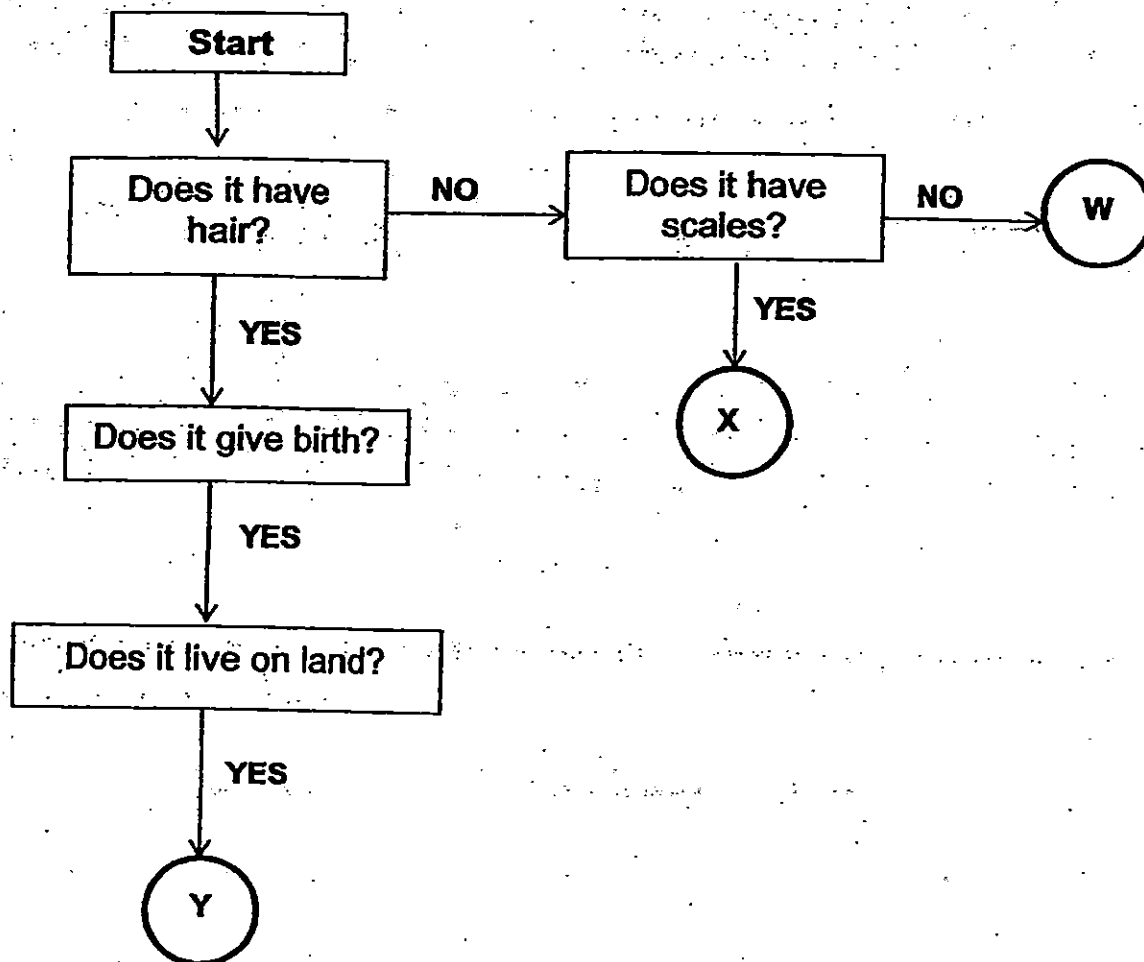
(b) Which part of their bodies helps the animals to fly?

[1m]

---



23. Sam observed three animals, W, X and Y. From his observation, he drew the following flowchart.



- a) Which animal, W, X or Y, is likely to be a mammal?

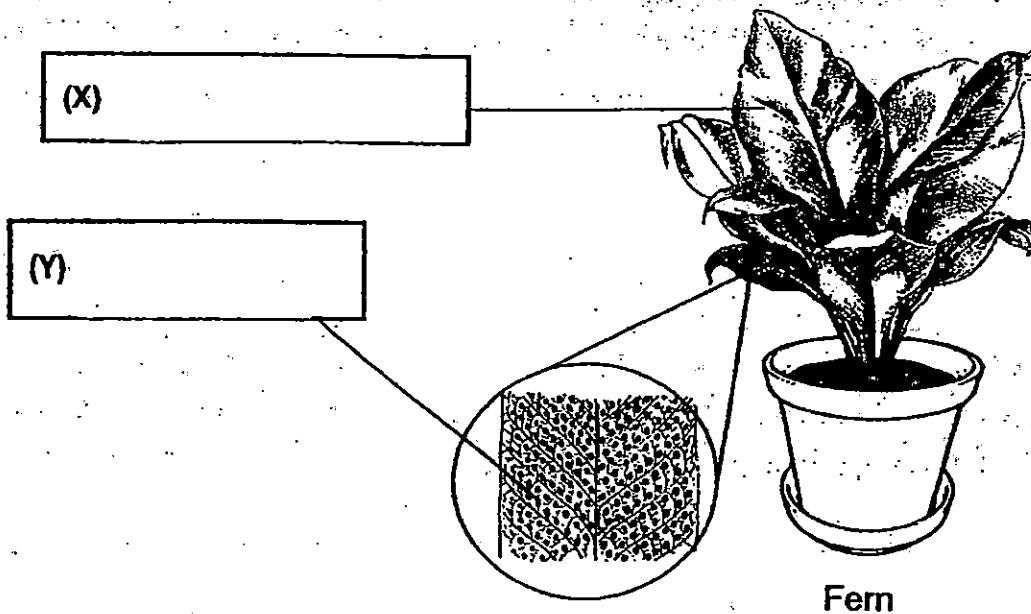
[1m]

- b) Which animal, W, X or Y, is likely to be a bird?

[1m]



24. In the diagram below, Y is found on the underside of part X of the fern.



Fern

Label correctly what X and Y are, on the diagram above.

[2m]

25. Write (T) if the statement is true and (F) if the statement is false in the boxes provided.

[2m]

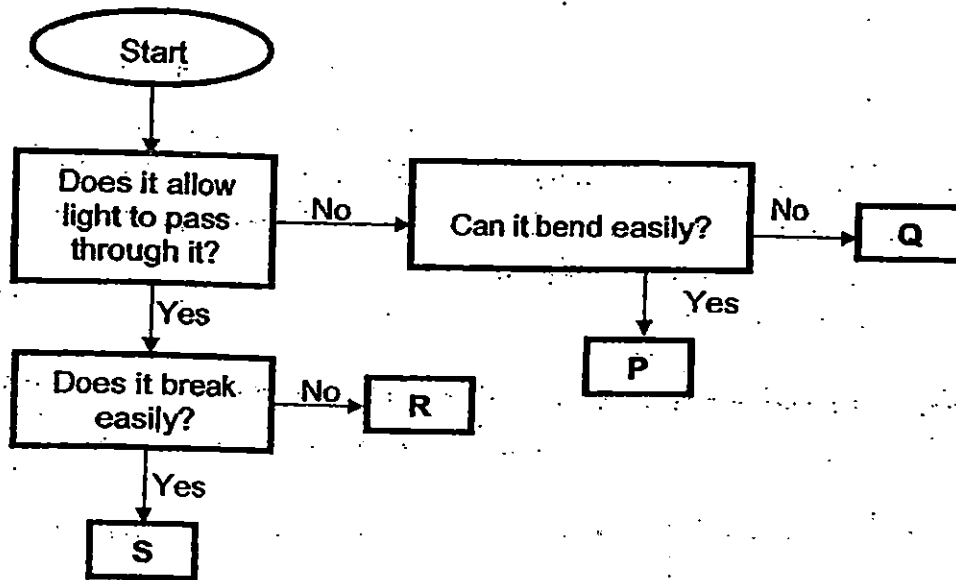
	Statements	T or F
(a)	Flowering plants produce fruits.	
(b)	Plants can make their own food.	
(c)	Non-flowering plants can reproduce.	
(d)	Flowering plants cannot reproduce.	



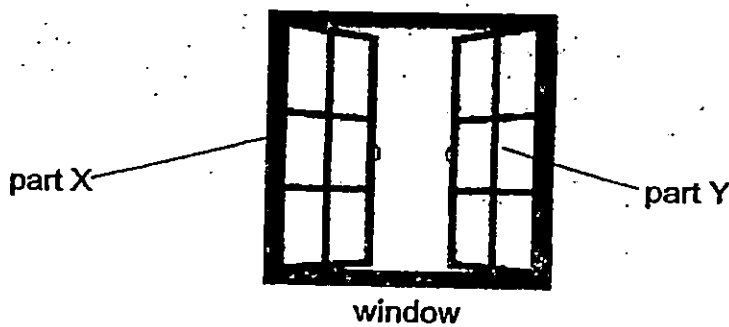
26. Tick (✓) 'True' or 'False' in the respective columns for the following statements. [2m]

	Statement	True	False
a)	Fungi belong to the plant group.		
b)	Bacteria belong to the animal group.		

27. Study the flowchart about some materials.



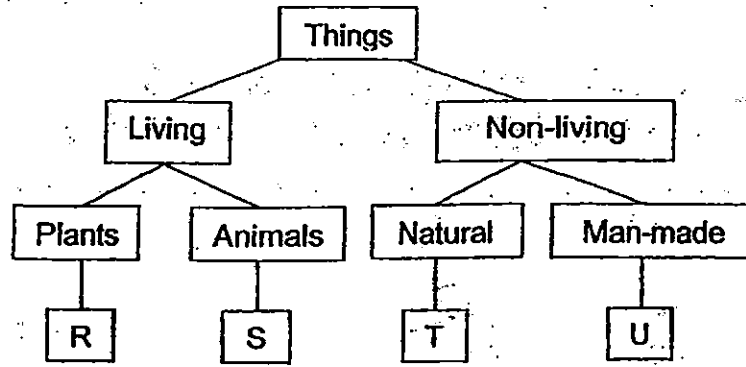
Write P, Q, R or S, to the correct parts of the window shown below. [2m]



- a) Part X - \_\_\_\_\_
- b) Part Y - \_\_\_\_\_



28. The classification chart below shows two groups of objects.



Classify the two things shown below under the suitable groups.

Write R, S, T or U in the correct boxes below.

[2m]



a)

Fern



b)

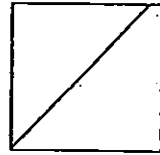
Bear



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SCIENCE  
PRIMARY 3**

Name: \_\_\_\_\_

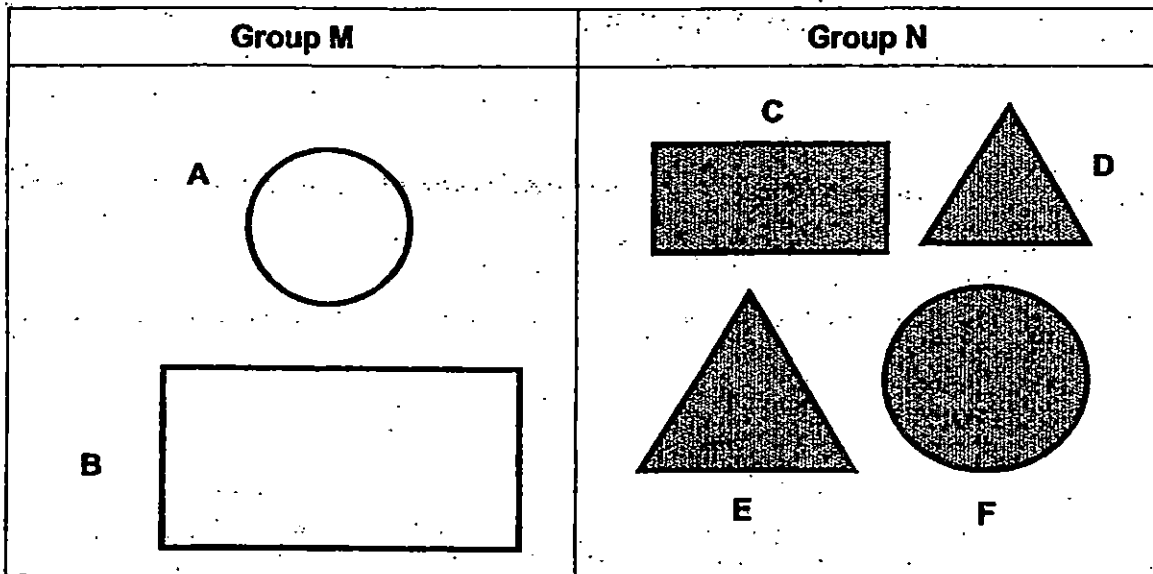
Class: Pr.3 \_\_\_\_\_



**Section C: Open-Ended Questions (24 marks)**

For each question from 29 to 36, write your answers in the spaces given.

29. Observe the shapes in the two groups below.

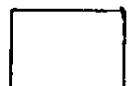


a) The shapes shown above are classified into two groups.

[1m]

How are they classified? Tick (✓) the correct box.

- The shapes are classified by size.
- The shapes are classified by whether they are shaded or unshaded.
- The shapes are classified by the number of sides each has.



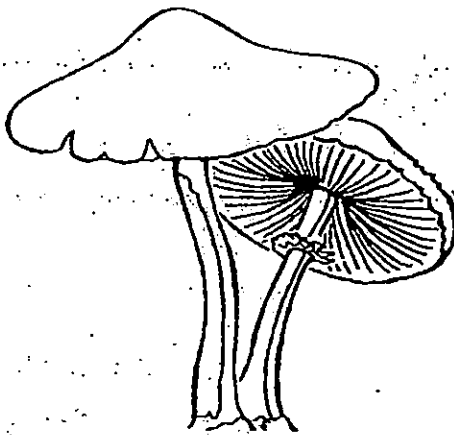
b) Classify the objects again into three groups.

[2m]

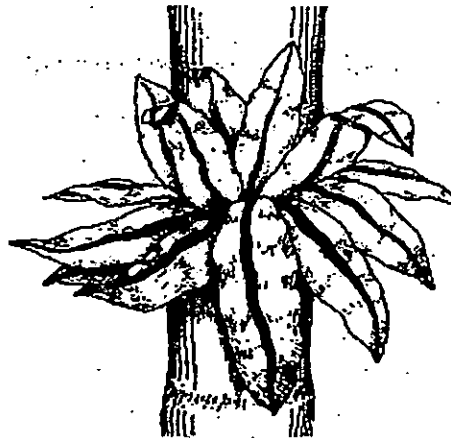
Write A, B, C, D, E and F that represent the objects in the boxes below.

Group 1	Group 2	Group 3

30. Study the organisms shown below.



Mushroom



Fern

a) These two organisms reproduce in a similar way.  
State this similarity.

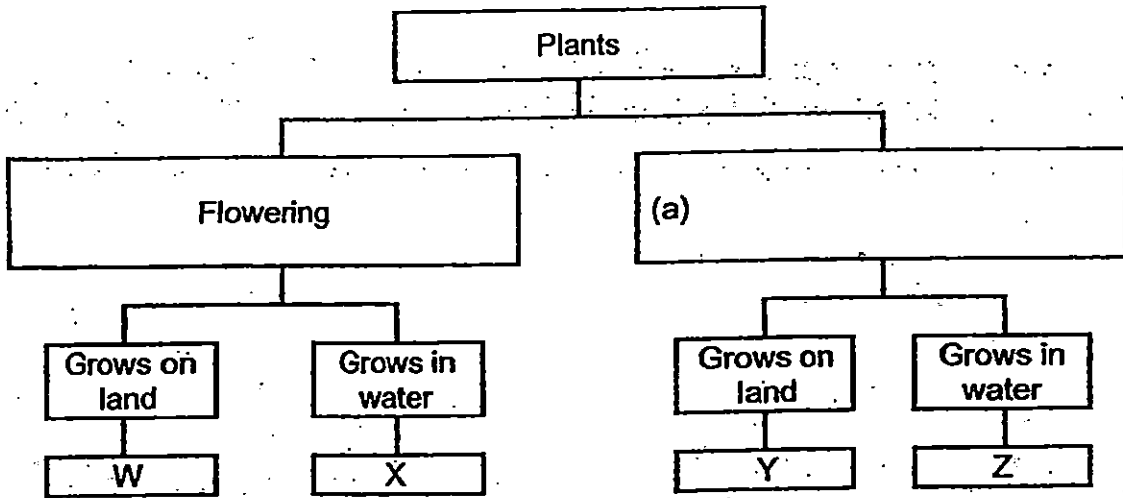
[1m]

b) These two organisms obtain food in different ways.  
State this difference.

[1m]



31. Study the classification chart shown below.



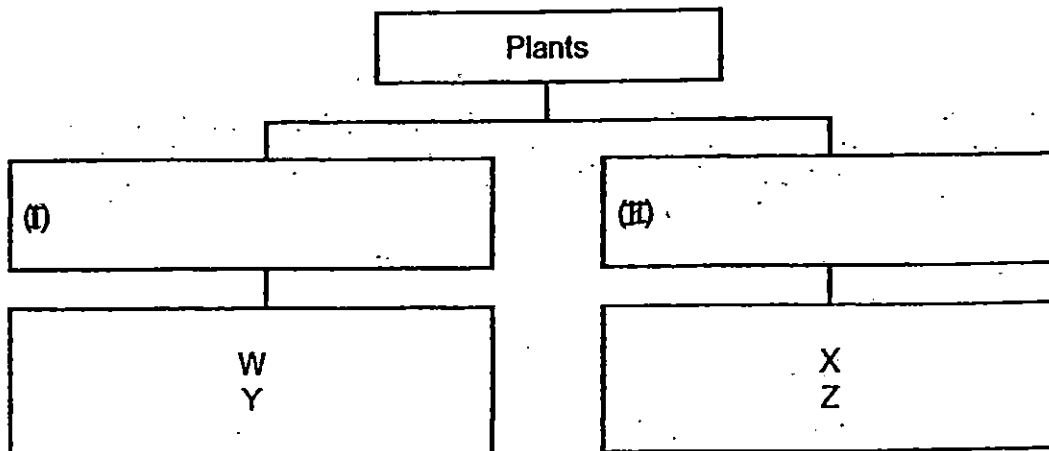
a) Write a suitable heading for (a) in the classification chart above. [1m]

b) Based on the classification chart above, state two characteristics of plant W. [2m]

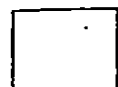
Characteristic 1: \_\_\_\_\_

Characteristic 2: \_\_\_\_\_

c) Plants W, X, Y and Z were classified again into two groups as shown below.



Write suitable headings for (I) and (II) in the classification chart above. [2m]





32. Tim observed some animals and used the table below to classify them into animal groups.

	Reptile	Amphibian	Group X	Group Y
Type of outer covering	Dry skin with scales	Moist skin	Feathers	Hair
Hatched from egg	Yes	Yes	Yes	No
Feed young with milk	No	No	No	Yes
Lives in water	No	Yes	No	No

a) Write a suitable animal group for X and Y.

[2m]

Group X: \_\_\_\_\_

Group Y: \_\_\_\_\_

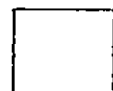
b) Tim studied Animal Z and recorded its characteristics below.

<p><b><u>Characteristics of Animal Z</u></b></p> <ul style="list-style-type: none"><li>• Has hair</li><li>• Feeds its young with milk</li><li>• Lives in the sea</li></ul>
--

In which animal group should Animal Z be classified under?

[1m]

\_\_\_\_\_



33. Study the animal shown below.

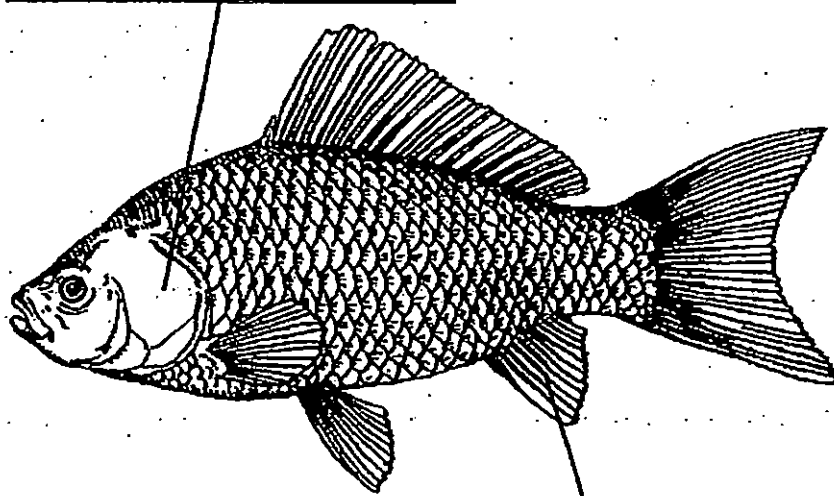
Using the helping words given below, label parts (a) and (b) correctly.

[2m]

Helping Words

Fin	Scale
Tail	Gill Cover

(a)



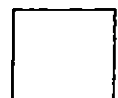
(b)

c) Charlie classified the above animal as an insect.  
Explain why Charlie is wrong.

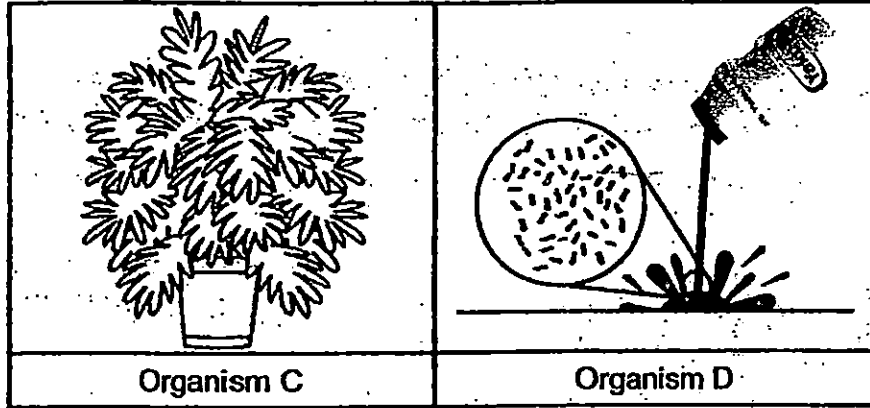
[1m]

---

---



34. The diagram below shows two types of organisms.



a) State two differences between Organism C and Organism D.

[2m]

i) Difference 1 - \_\_\_\_\_

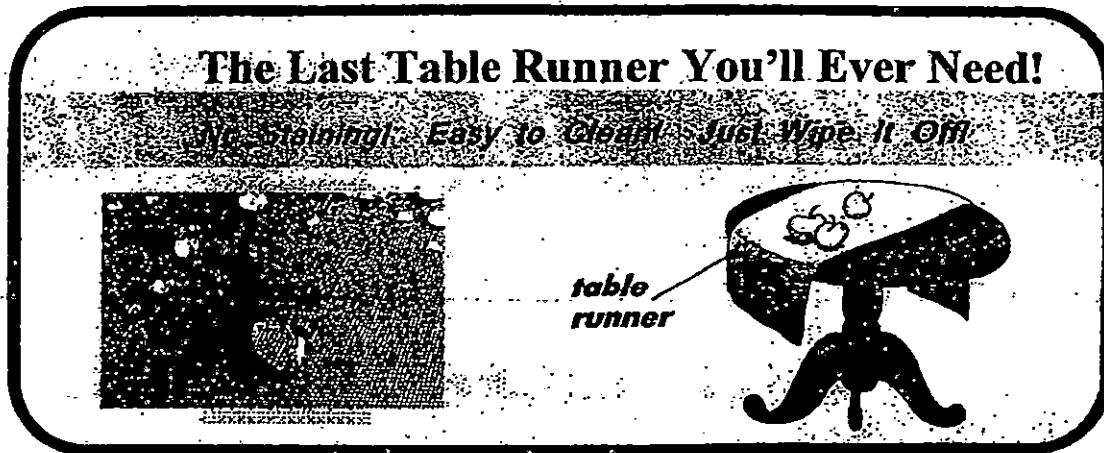
ii) Difference 2 - \_\_\_\_\_

b) State one similarity between Organism C and Organism D.

[1m]



35. Jacob saw the advertisement, shown below, that described a table runner.



a) Tick (✓) the correct property of the table runner that is shown in the advertisement above? [1m]

Waterproof

Sinks in water

Allows light to pass through

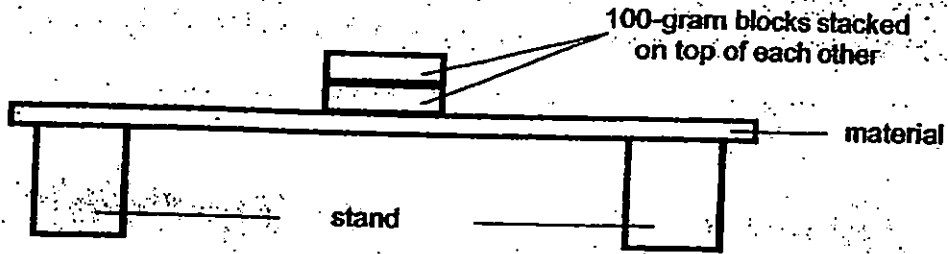
b) Name a suitable material that the table runner could be made of. [1m]

---



36. Flora carried out the following experiment on three different materials X, Y and Z.

b)



	Material X	Material Y	Material Z
Number of blocks that caused the material to break	5	30	90

a) Which property of the material is she testing for?

[1m]

---

b) Which material is the strongest?

[1m]

---

c) Using the information from the table, explain your answer for (b).

[1m]

---

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- End of paper -





**EXAM PAPER 2015**

**LEVEL : PRIMARY 3**  
**SCHOOL : HENRY PARK**  
**SUBJECT : SCIENCE**  
**TERM : SA1**

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

Q21a. Thing R and T → could possibly be a living thing.

Q21b. Thing T

Q22a. can fly – P, R cannot fly → Q, S

Q22b. The wings.

Q23a. Y Q23b. W

Q24. X – leafs Q24. Y – spores

Q25a. TRUE Q25b. TRUE Q25c. TRUE Q25d. FALSE

Q26a. FALSE Q26b. FALSE

Q27a. Part X – Q Q27b. Part Y – S

Q28a. Fern Q28b. S

A, F	C, B	E, D
Group 1	Group 2	Group 3

Q29. The shapes are classified by whether they are shaded or unshaded.

Q29 (b)

Q30a. They reproduce by spores.

Q30b. The mushroom feeds organisms but the fern makes its own food.

Q31a. It is a flowering plant.

Q31b. Characteristic 1 : It is a flowering plant.

Q31b. Characteristic 2 : It grows on land.

Q31c i) Grows on land Q31c ii) Grows in water

Q32a. Group X : Birds Q32b. The mammal group

Group Y: Mammals

Q33a. Gill cover Q33b. Fin

Q33c:

Compare	Insect	Fish
Body Cover	Exoskeleton	Scales
L parts	3 parts – Head, thorax, abdomen	2 parts
Breathing method	Lungs, skin	Gills

Q34ai) Difference 1 – Organism C has leaves but organism D does not.

Q34aii) Difference 2 – Organism D can only be seen through a micro-scope, but organism C can be seen with the naked eye.

Q34b. They both can reproduce.

Q35a. Waterproof Q35b. Rubber

Q36a. Strength Q36b Material Z. Q36c. As it could hold the most 100-gram blocks until it broke.