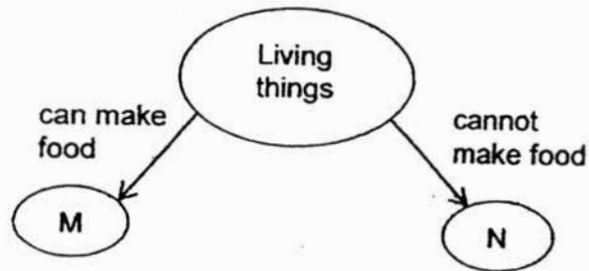
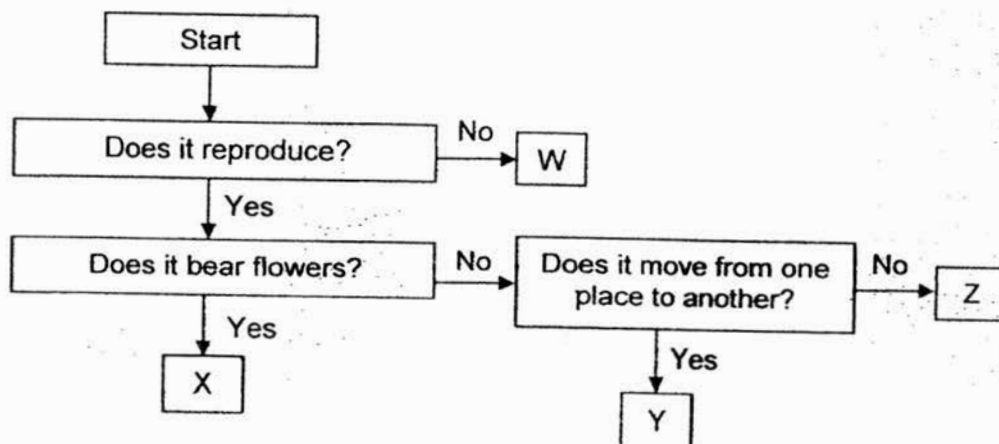


5. Study the mind map below carefully.



Which of the following are similarities between M and N?

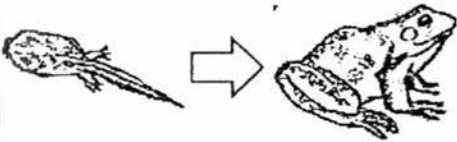
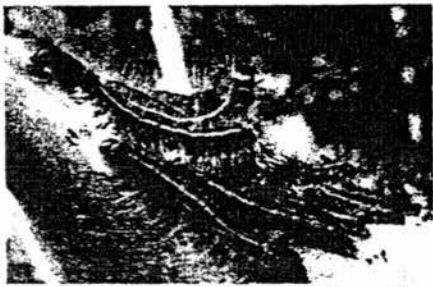
- (1) They can reproduce.
 - (2) They need only food to survive.
 - (3) They have fruits, leaves and stem
 - (4) They can move freely from place to place on their own.
6. Study the flowchart below.



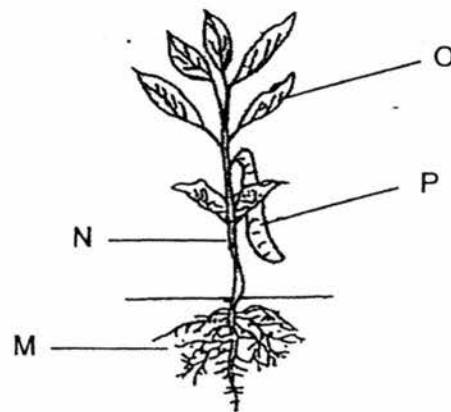
Which of the following letters, W, X, Y or Z, represents an animal?

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

7. Which of the following observations **does not** match the characteristics of all living things?

	Observations	Characteristics of all living things
(1)	 A boy perspiring under the hot sun.	They respond to changes.
(2)	 A sunflower growing towards sunlight.	They can make their own food.
(3)	 A tadpole becoming a frog in 13 weeks.	They grow.
(4)	 An increase in the number of caterpillars in the garden.	They reproduce.

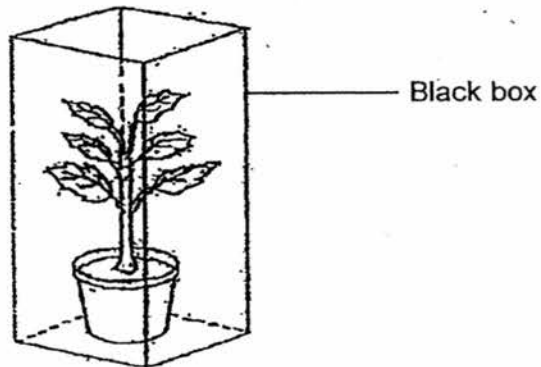
8. The diagram below shows a string bean plant.



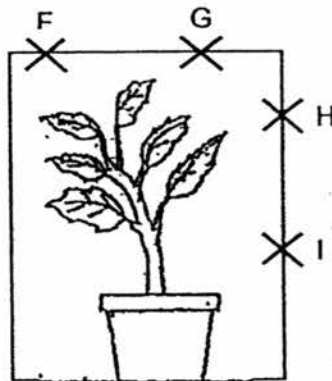
Which of the following part of the plant is not found on non-flowering plants?

- (1) M
 - (2) N
 - (3) O
 - (4) P
9. Which of the following statement(s) is/are true of all flowering plants?
- A They produce fruits.
 - B They can only be found on land.
 - C Their flowers are similar in size, shape and colour
 - D They produce flowers when the conditions are right.
- (1) B only
 - (2) B and D only
 - (3) A and D only
 - (4) All of the above

10. Vincent placed a plant inside a black box as shown below. He then made a hole in the box and placed it in the garden. He watered the plant daily.



A few days later, he observed that as the plant grew, the stem grew in the direction as shown in the diagram below.



At which of the above positions, F, G, H or I, is the hole made in the box?

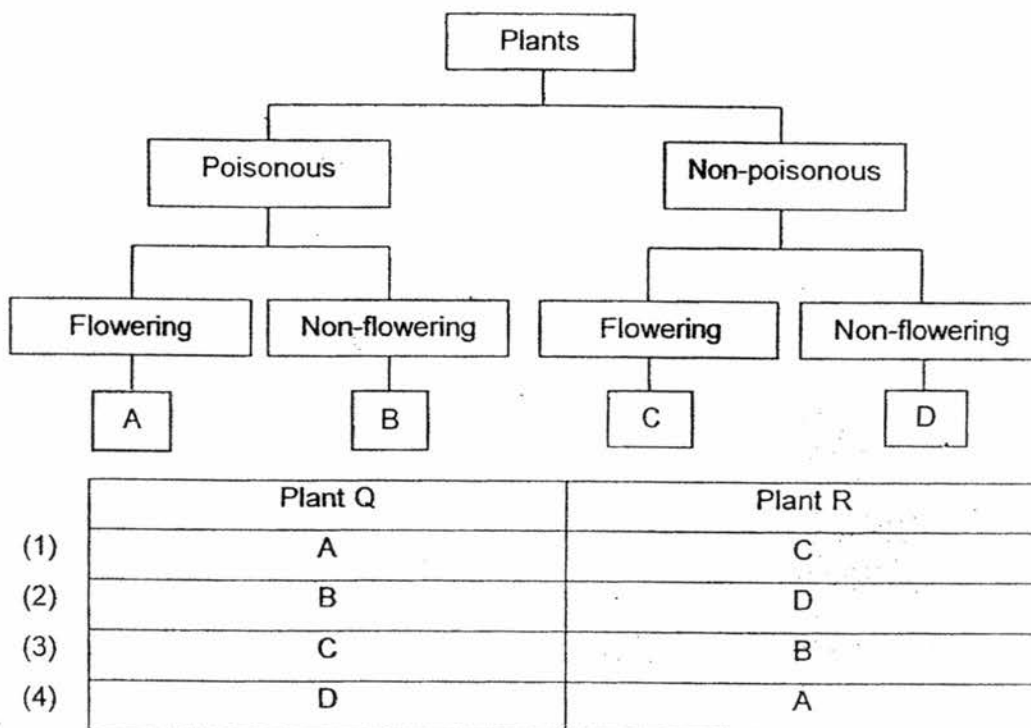
- (1) F
- (2) G
- (3) H
- (4) I

Study the table and classification chart below and answer questions 11 and 12.

11. The following table gives information on four plants, P, Q, R and S, based on two characteristics. A tick (✓) shows that the plant has the characteristic.

Characteristics	P	Q	R	S
Poisonous		✓		✓
Has fruits	✓			✓

From the information above, in which group, A, B, C or D, do plants Q and R belong in the following classification chart?



12. Which of the following statements about plants P, Q, R and S is **incorrect**?

- (1) Plant P and S reproduce by seeds.
- (2) Fern is an example of plant Q or R.
- (3) Apple tree is an example of plant P.
- (4) Plant S does not make its own food.

13. Kenneth planted two identical plants into two identical cups, K and L, and placed them at different places, one at the garden and one in a dark cupboard. He watered both cups with equal amount of water. The table below shows the growth of both plants over two weeks.

	Height of plants in centimetres (cm)		
	Week 0	Week 1	Week 2
Cup K	7	9	12
Cup L	7	7	7

What was the aim of his experiment?

- (1) To find out if plants need water to grow.
 - (2) To find out if light affects the growth of plants.
 - (3) To find out if the type of cup affects the plants' survival.
 - (4) To find out if the height of plants will affect the plants' survival.
14. Which one of the following animals does not have a hard outer covering?

(1)  Beetle	(2)  Lizard
(3)  Ant	(4)  Grasshopper

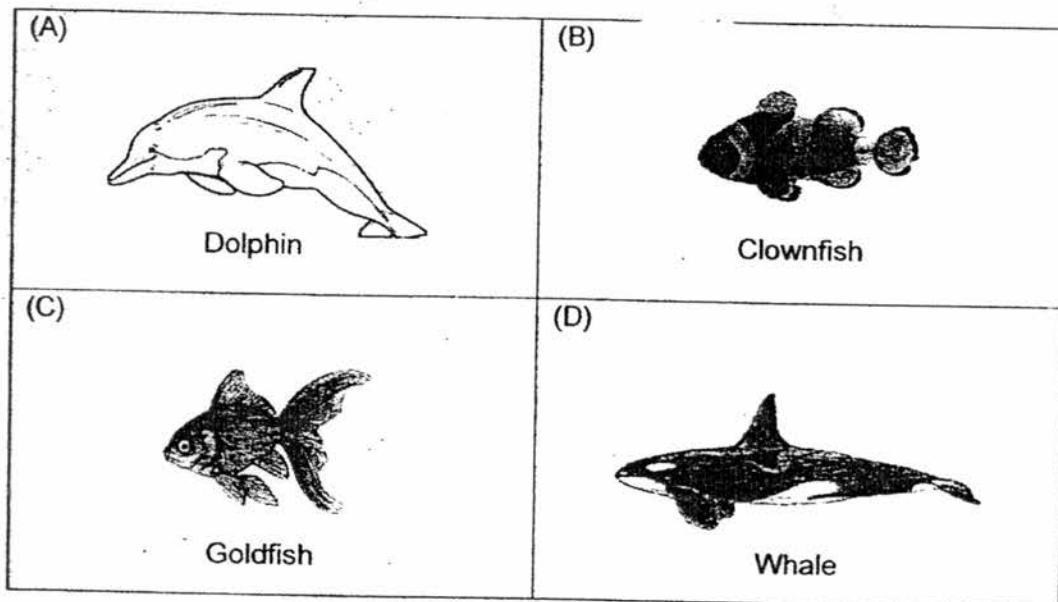
15. Which animal group is **incorrectly** matched to its outer covering?

	Group	Outer Covering
(1)	Bird	Feathers
(2)	Reptile	Dry skin with scales
(3)	Mammal	Hair
(4)	Amphibian	Scales

16. Which of the following statements is true about mammals?

- (1) They have feathers.
- (2) They suckle their young.
- (3) They reproduce by laying eggs.
- (4) They do not have constant body temperature.

17. Study the pictures of the animals below.



Which of the following classifies the animals into the correct two animal groups?

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

18. The diagram below shows a frog and a snake.



Frog



Snake

How are the two animals similar?

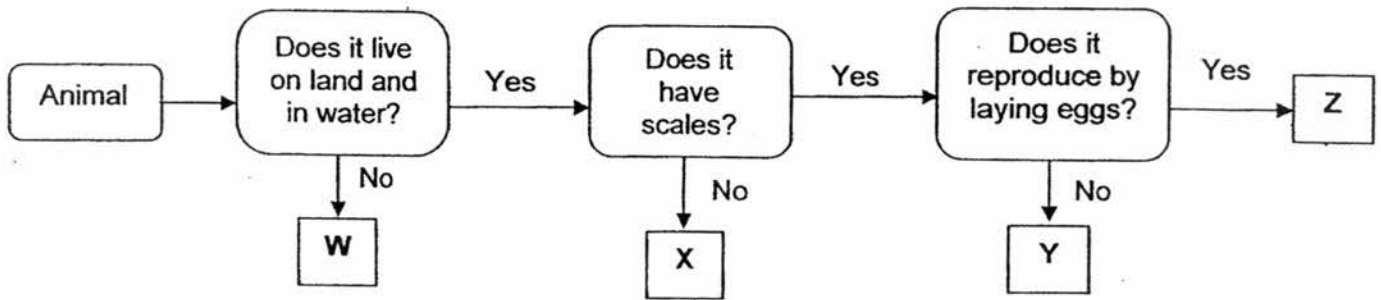
- A They have the same outer covering
 - B Most of them reproduce by laying eggs.
 - C They do not have constant body temperature.
- (1) A and B only
 - (2) A and C only
 - (3) B and C only
 - (4) A, B, and C
19. Jack wanted to find out if the animal below is a bird.



Which of the following actions would allow him to be certain if he is correct?

- (1) Observing if it can fly
- (2) Checking if it has feathers
- (3) Counting the number of legs it has
- (4) Finding out if it reproduces by laying eggs.

20. Study the flowchart below and answer questions 20 and 21.



Which group (W, X, Y or Z) does a **Cat** and **Turtle** belong to in the above flowchart?

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

21. Which letter, W, X, Y or Z, best represents the animal shown below?



Salamander

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

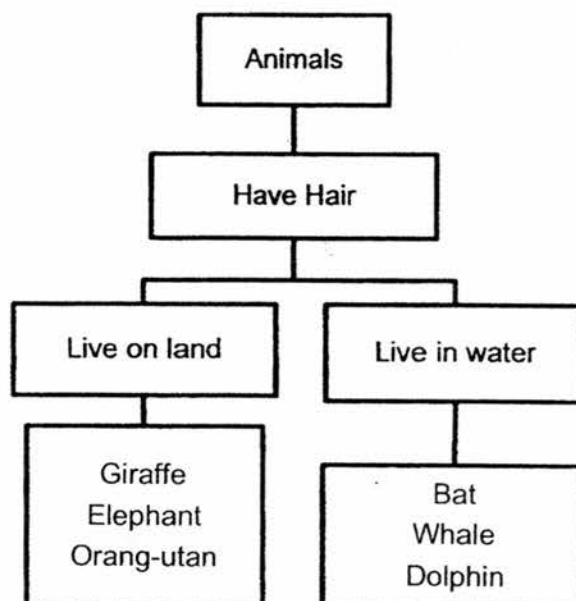
22. June discovered an unknown animal. She made the following observations:

- It reproduces by laying eggs.
- It can live on land and in water.
- It breathes through its lungs when it is on land.

Which of the following animal groups does it belong to?

- (1) Amphibians
- (2) Fish
- (3) Insects
- (4) Reptiles

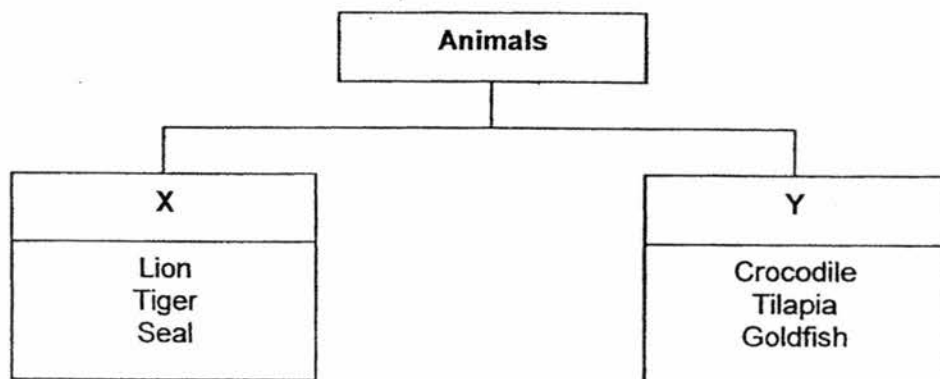
23. Study the classification chart below.



Which animal in the above classification chart is classified incorrectly?

- (1) Bat
- (2) Dolphin
- (3) Orang-utan
- (4) Whale

24. Peter classified some animals into two groups as shown below.



Which of the following shows the correct headings for X and Y?

	X	Y
(1)	Mammals	Fish
(2)	Live on land only	Live in water only
(3)	Animals with hair	Animals with scales
(4)	Animals that lay eggs	Animals that give birth to young

25. The table below shows the characteristics of four animals, A, B, C and D. A tick (✓) indicates the presence of the characteristic.

Animal	Number of legs			Has Wings	Lay eggs
	2	4	6		
A	✓			✓	✓
B		✓			✓
C			✓		✓
D			✓	✓	✓

Which animals, A, B, C or D, could be the bee and ostrich?

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

End of Booklet A

SEMESTRAL ASSESSMENT 1 (2017)

PRIMARY 3

SCIENCE

BOOKLET B

Wednesday

17 May 2017

1 hr 30 min

Name: _____ () Class: 3.() Parent's Signature: _____

INSTRUCTIONS TO PUPILS

- 1 Do not turn over the pages until you are told to do so.
- 2 Follow all instructions carefully.
- 3 There are 13 questions in this booklet.
- 4 Answer ALL questions.
- 5 The marks are given in the brackets [] at the end of each question or part question.

Booklet	Possible Marks	Marks Obtained
A	50	
B	40	
PBA	10	
Total	100	

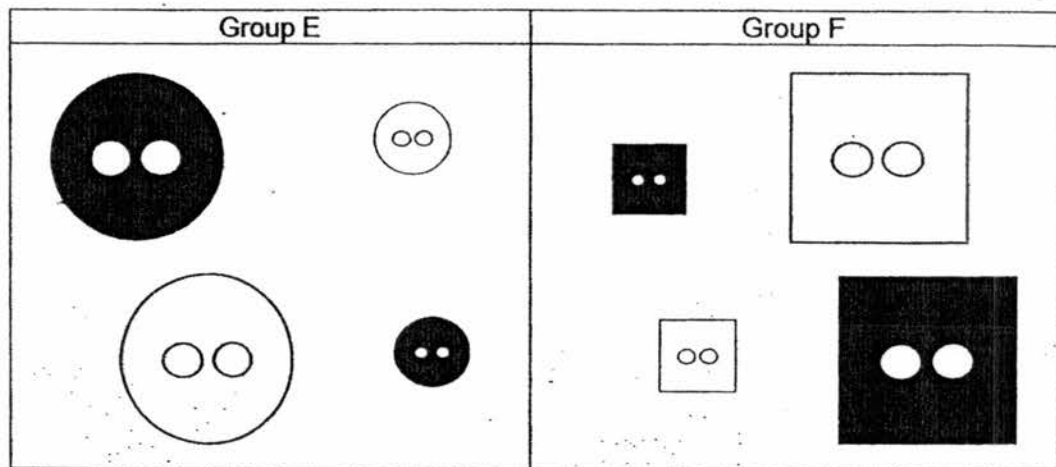
This question paper consists of 14 printed pages (inclusive of cover page).

Booklet B (40 marks)

For questions 26 to 38, write your answers in this booklet.

The number of marks available is shown in brackets [] at the end of each question or part question.

26. The buttons below are classified into two groups, E and F.



- (a) What characteristic is used to group the buttons? [1]

- (b) State two other characteristics you can use to classify the buttons equally into two groups. [2]

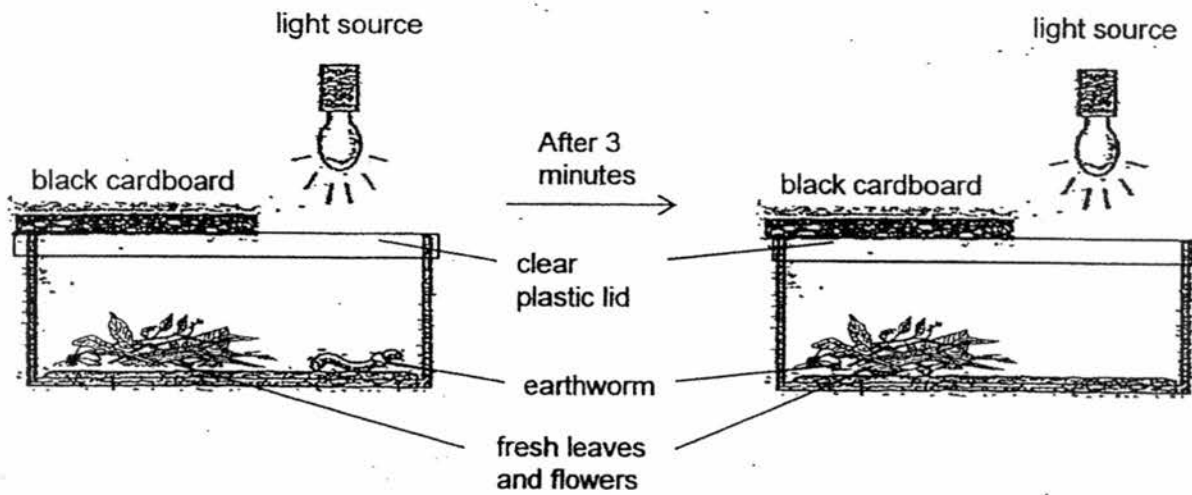
Characteristic 1 : _____

Characteristic 2 : _____

(Go on to the next page)

SCORE	3
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27. Adrian carried out an experiment as shown below. He placed an earthworm in a box and used a clear plastic lid to seal the box. He left the light source on for 3 minutes and found the earthworm hiding in between the fresh leaves and flowers.



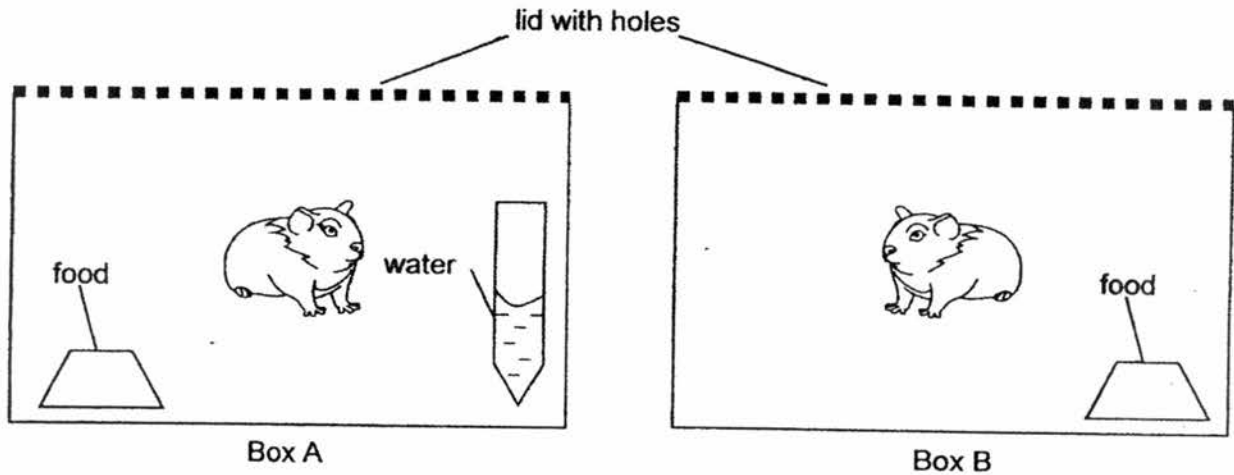
- (a) Based on his observation, state two characteristics of living things that the earthworm shows. [2]

- (b) The earthworm died after several hours. Explain why it died. [1]

(Go on to the next page)

SCORE	
	3

28. Tim placed 2 hamsters with the same amount of food into two identical transparent plastic boxes. He placed water in Box A and then placed both boxes in the living room.



- (a) What will happen to the hamster in Box B after 10 days? Explain your answer. [1]

- (b) What is the aim of his experiment? [1]

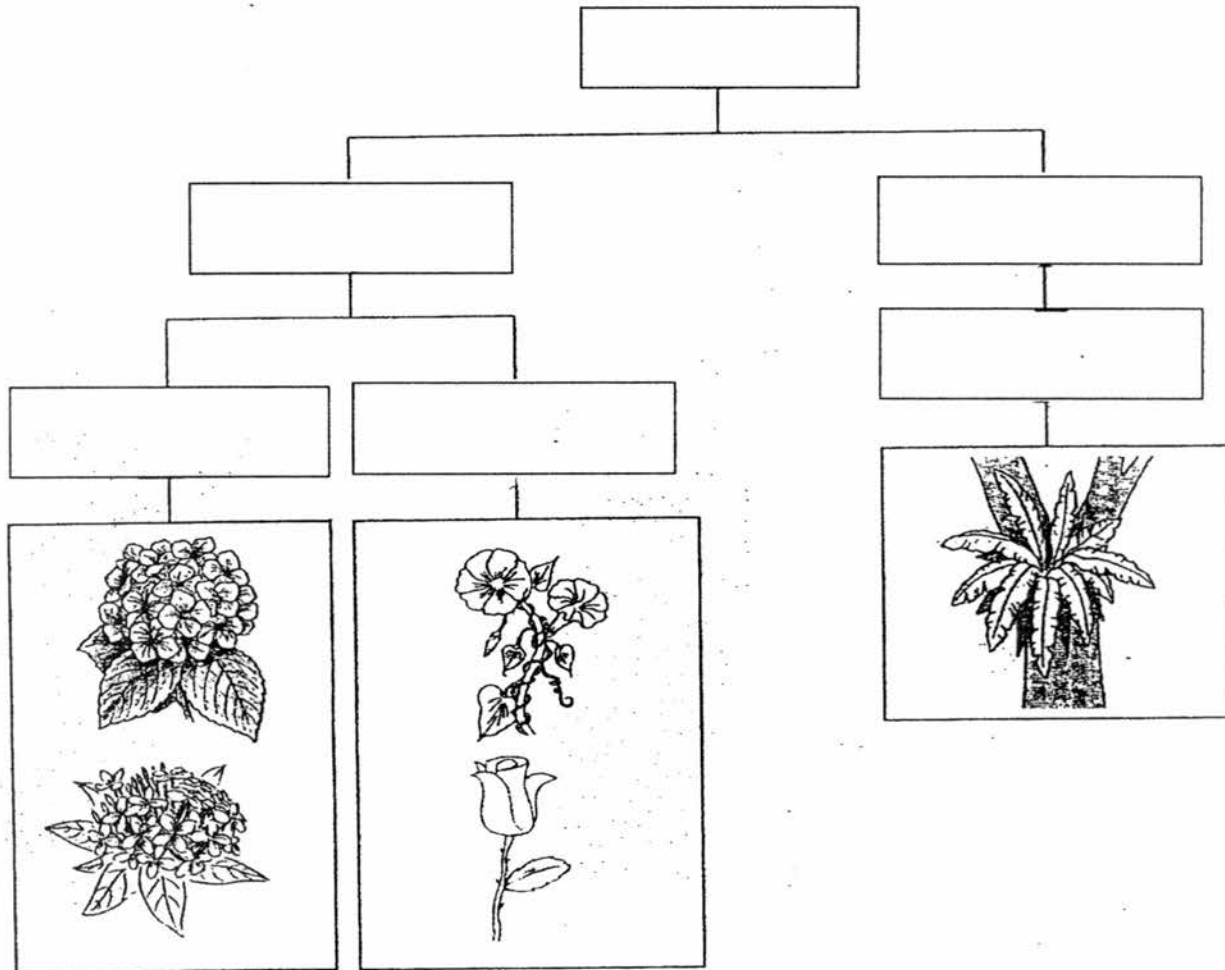
- (c) State two changes that he needs to make to Box B if he wants to find out if living things need air to survive. [1]

(Go on to the next page)

SCORE	
	3

29. Using the words provided in the table below, fill in the boxes in the classification chart with suitable sub-headings. [3]

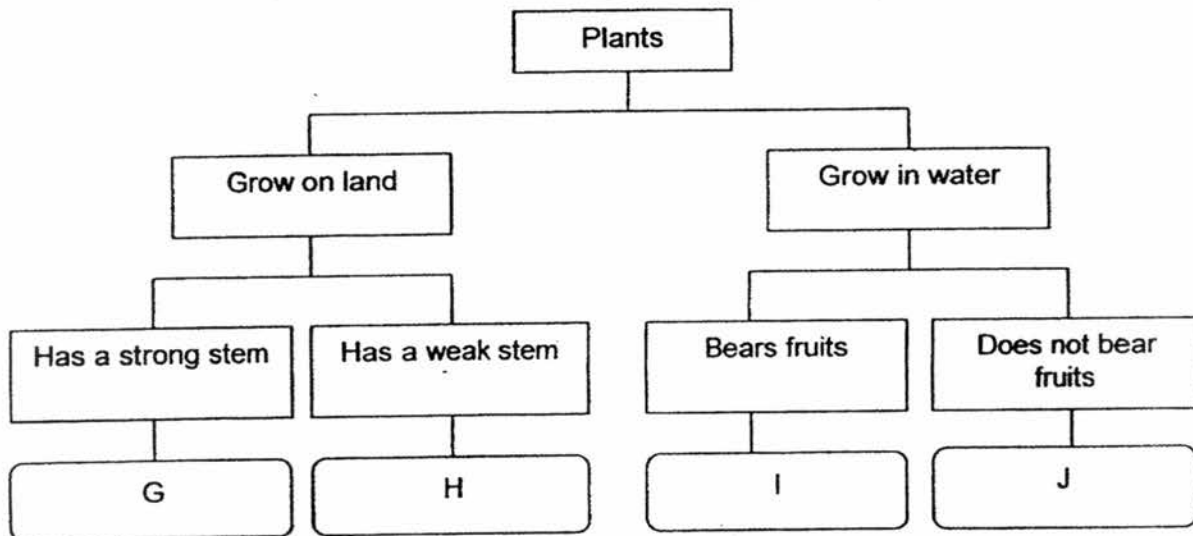
Clusters	Non-flowering	Singly
Flowering	Fern	Plants



(Go on to the next page)

SCORE	3
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30. Study the classification chart below carefully.



(a) Write down two characteristics of Plant G.

[1]

(b) State one difference between Plant H and Plant J.

[1]

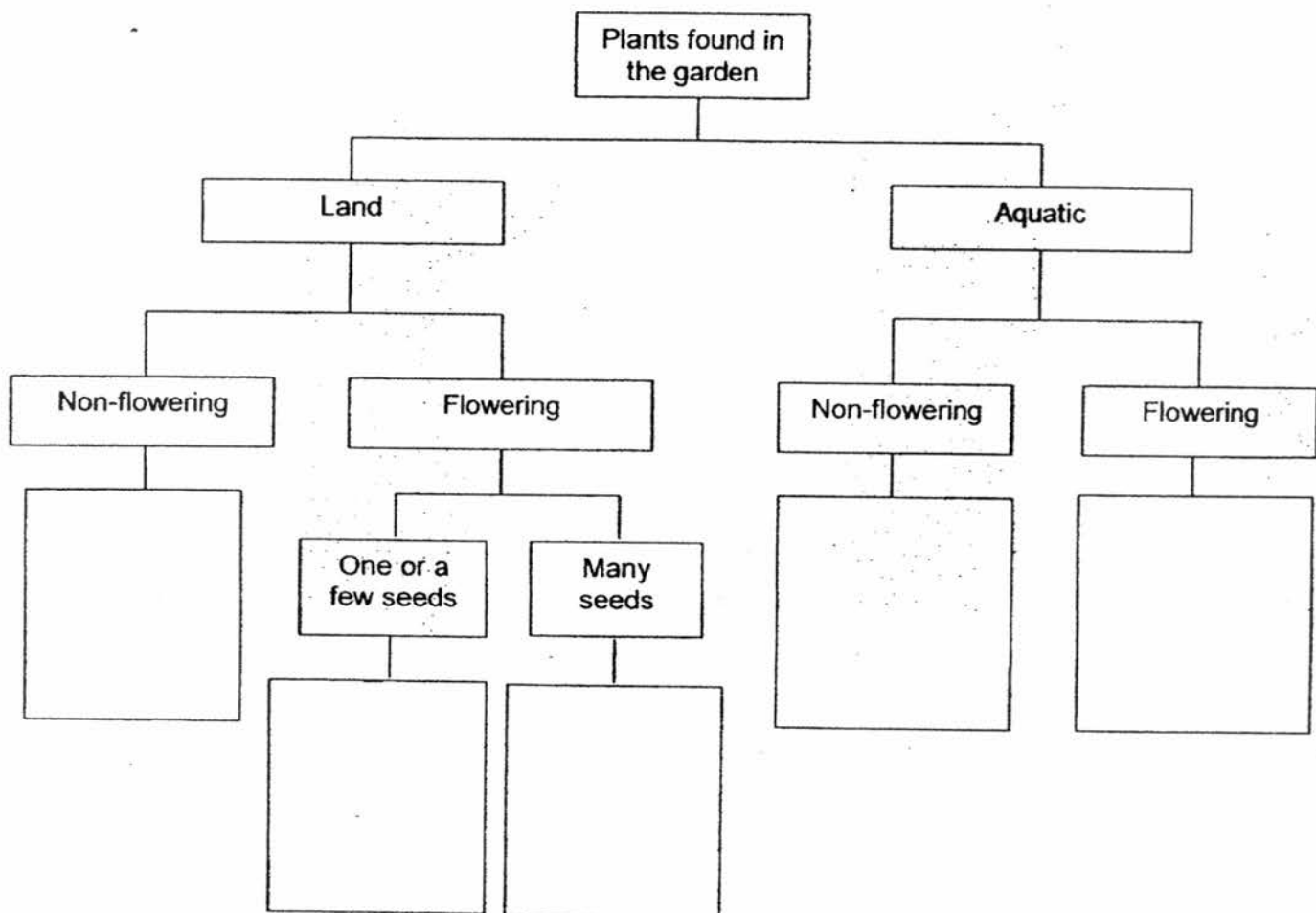
(Go on to the next page)

SCORE	2
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31. David found some plants. He observed them carefully and made the following notes about them.

Plant	Type of plant	Number of seeds	Location
A	Non-Flowering	-	Water
B	Flowering	many	Land
C	Non-Flowering	-	Land
D	Flowering	one	Land
E	Flowering	a few	Water
F	Flowering	a few	Land

Based on the observations given in the table above, classify all the plants by writing the letters (A to F) in the boxes provided below. You may write more than one letter in a box. [3]



(Go on to the next page)

SCORE	3
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32. Ian grew four Sunflower plants, W, X, Y and Z. He placed them under different conditions. A tick (✓) shows that the condition is present.

Plant	Condition		
	Air	Water	Sunlight
W	✓		✓
X		✓	✓
Y	✓		
Z	✓	✓	✓

- (a) Which Sunflower plant, W, X, Y or Z, will grow the best after three weeks? [1]
Explain your answer.

- (b) Which two plants should he compare if he wants to find out if plants need water to grow? [1]

- (c) At the place where plant Z was growing, Ian found some young sunflower plants growing. State the characteristic of living things this shows. [1]

33. Animal M has the following characteristics:

- It lays eggs.
- It has a shell.
- It can live on land and in water.
- It has dry skin covered with scales.

- (a) Study the picture of the frog below.



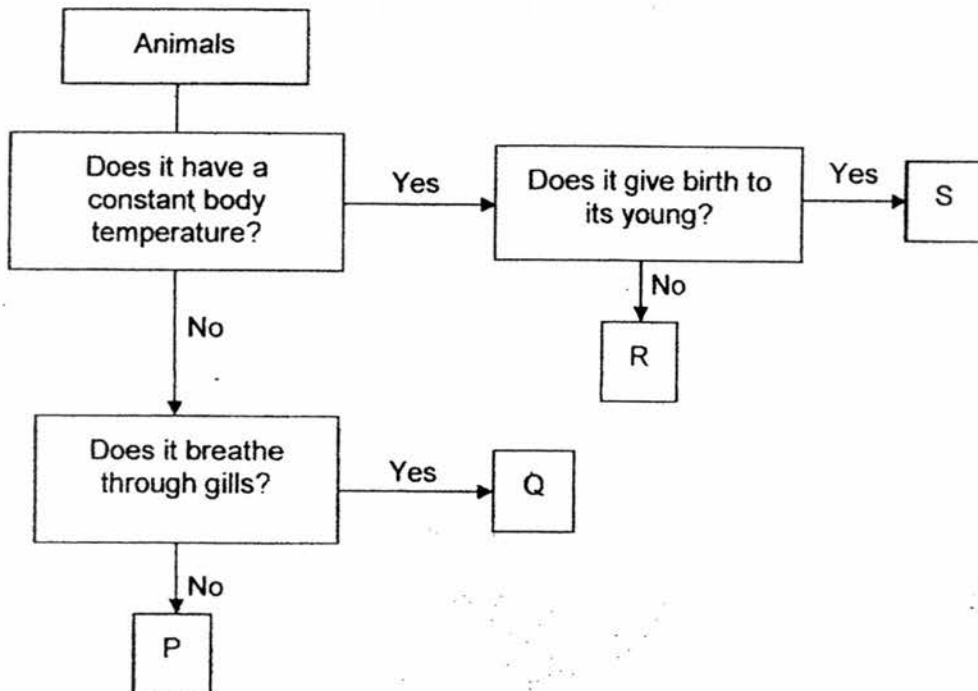
Frog

- Muthu said that Animal M is a frog as it can live on land and in water. Is he correct? Give two reasons for your answer. [2]

- (b) Based on the information above, which animal group would Animal M most likely belong to? [1]

(Go on to the next page)

34. Study the flowchart below.



(a) Based on the flow chart, describe one similarity and one difference between Animal R and Animal S.

(i) Similarity:

[1]

(ii) Difference:

[1]

(Go on to the next page)

SCORE	2
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- (b) Using the information from the flowchart in part (a), write the letters, P, Q, R and S to match the animals in the boxes below.

[2]

Animals	Letter
 Horse	
 Toad	
 Shark	
 Pigeon	

(Go on to the next page)

SCORE	2
-------	---

35. Study the pictures of Animal T and Animal U below.



Animal T



Animal U

- (a) Which animal group does Animal T belong to?

[½]

- (b) State 3 characteristics of Animal T.

[1½]

i) _____

ii) _____

iii) _____

- (c) State a similar characteristic **between** Animal T and Animal U based on the pictures above. [Do not mention about their shape, size and colour.]

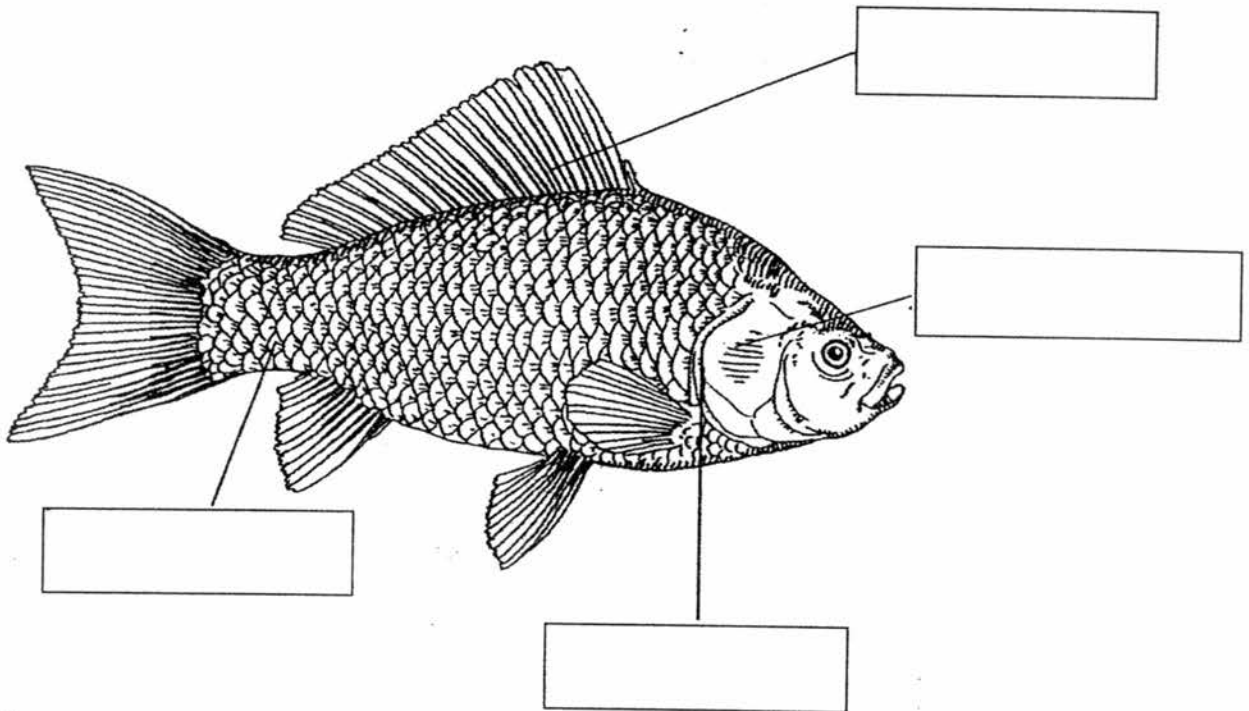
[1]

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SCORE	
	3

36. (a) Label the different parts of the fish below.

[2]



(b) State the part of the fish which enable it to swim and breathe.

[1]

(i) Swim : _____

(ii) Breathe : _____

(c) Andrew found a mudskipper near his house.



Mudskipper

Based on your observation, is the mudskipper a fish? Explain your answer.

[1]

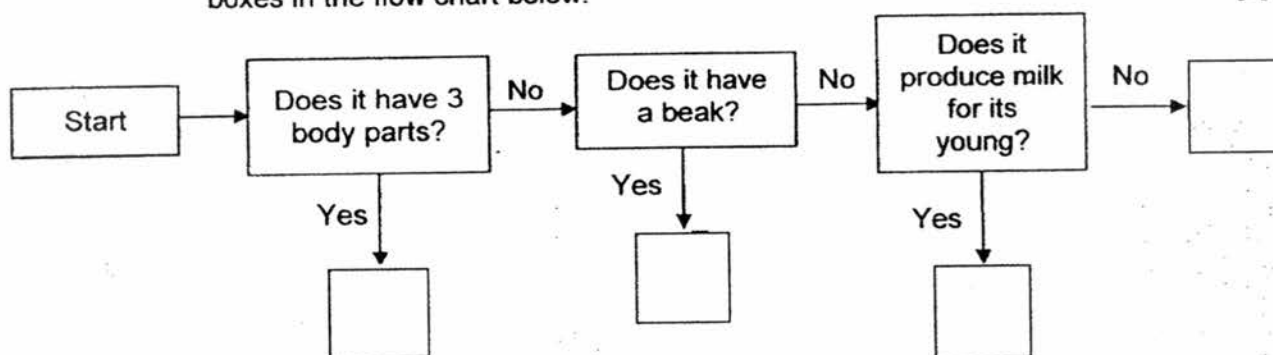
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SCORE	
	4

37. The table below gives information on four animals W, X, Y and Z. A tick (✓) indicates that the animal has that characteristic.

Characteristics	Animals			
	W	X	Y	Z
Has six legs			✓	
Has scales	✓			
Has feathers				✓
Has hair		✓		

- (a) Using the information above, write the letters W, X, Y and Z in the correct boxes in the flow chart below. [2]



- (b) Which animal group do Animal Y and Animal Z belong to? [1]

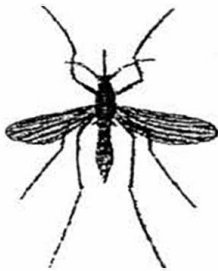
Animal Y: _____

Animal Z: _____

(Go on to the next page)

SCORE	3
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38. Study the pictures below.



Mosquito



Rat

Compare the two animals based on the characteristics stated.

[3]

Animal	Mosquito	Rat
Outer Covering		
Number of legs		
How they reproduce		

End of Paper

SCORE	3
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EXAM PAPER 2017

LEVEL : PRIMARY 3
SCHOOL : ACS (Junior)
SUBJECT : SCIENCE
TERM : SA1

Booklet A

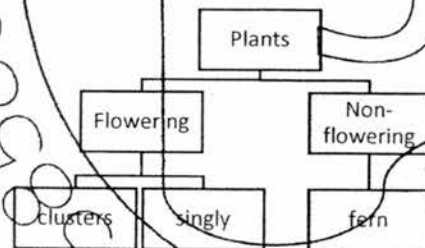
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
4	2	2	4	1	3	2	4	3	1	2	4	2	2
Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25			
4	2	3	3	4	1	2	1	1	3	4			

Booklet B

- Q26 (a) They are grouped according to their shapes.
 (b) Small size
 Big size
- Q27 (a) Living things respond to changes.
 Living things need air, food and water to survive.
 (b) There was not enough oxygen as the clear plastic lid has no holes to allow air to enter the box.

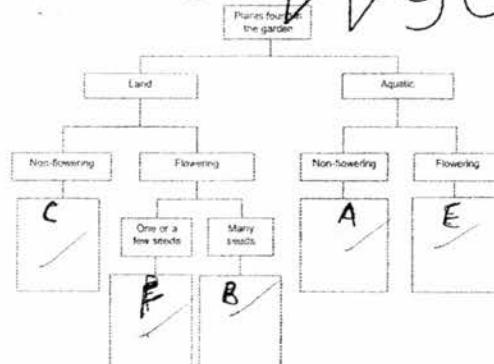
- Q28 (a) It will die. Living things need water to survive.
 (b) To find out if living things need water to survive.
 (c) He should place water in Box B and cover it with a lid without holes.

Q29 (a)



- Q30 (a) G has a strong stem and grows on land.
 (b) Plant H grows on land but plant J grows in water.

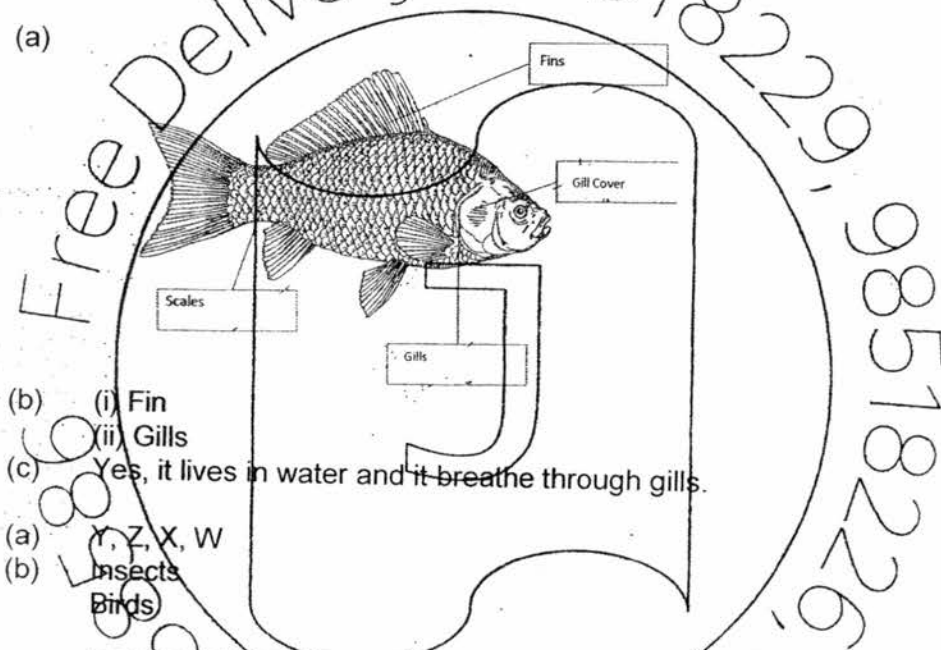
Q31



- Q32 (a) Plant Z. It has air, water and sunlight.
 (b) Plant W and Z.

- (c) Living things reproduce.
- Q33 (a) No. A frog does not have a shell and it does not have a dry skin covered with scales.
(b) Reptile
- Q34 (a) (i) They both have a constant body temperature.
(ii) Animal S gives birth to its young but Animal R does not give birth to its young.
(b) S, P, Q, R
- Q35 (a) Rooster
(b) (i) It lay eggs
(ii) It has feathers.
(iii) It has a beak.
(c) They both have a tail.

Q36 (a)



- (b) (i) Fin
(ii) Gills
(c) Yes, it lives in water and it breathe through gills.

- Q37 (a) Y, Z, X, W
(b) Insects
Birds

Q38

✓ Animal	Mosquito	Rat
Outer covering	Hard outer covering	Hair
Number of legs	6	4
How they reproduce	Lay eggs	Give birth to young alive

2
END.