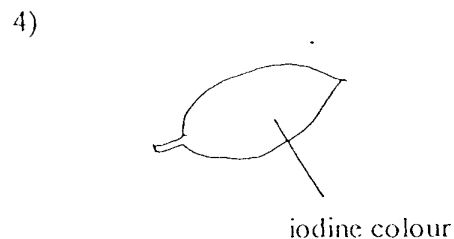
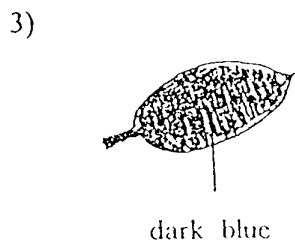
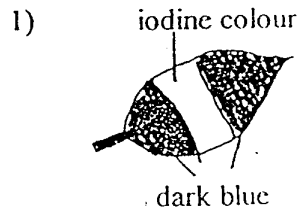
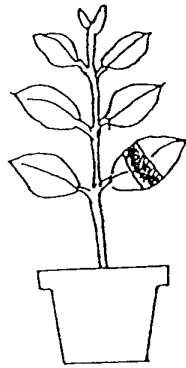


**Primary Six
Science
Continual Assessment One**

Section A For each question, four options are given. One of them is the correct answer. Mark your choice [1, 2, 3, 4] in the given box.

1. A group of pupils used a piece of black paper to cover part of a healthy leaf of a plant as shown in the diagram below. They left the plant out in the sun. After a few hours, the leaf was plucked off, boiled and soaked in alcohol and tested with iodine. Which of the following results will she get?



2. Which one of the following food uses ingredients that come from plants only?

- (1) cake
- (3) pie

- (2) ice-cream
- (4) bean curd

3. The animals listed below are harmful animals. Which of these would you take measures (steps) to protect your books from?

- (1) termite
- (3) aphids

- (2) silverfish
- (4) locust

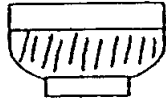
4. A piece of bread which is left in damp air will become mouldy because _____.

- A) there is moisture which enables the mould to live
- B) there is carbon dioxide which enables the moulds to grow
- C) there are mould spores in the air
- D) there are already mould spores in the bread

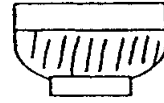
- (1) A and B
- (3) A, B and D

- (2) A and C
- (4) B, C and D

5.



Bowl A



Bowl B

Bowl A and Bowl B contain different kinds of food. They are left in the cupboard for 5 days. The food in Bowl B becomes mushy and smelly but the food in bowl A remains the same. Food in Bowl A is _____ while food in bowl B is _____.

	A	B
1	Dried prawns	Ikan bilis
2	Uncooked rice	Cooked Cauliflower
3	Groundnuts	Maize grains
4	Small fish	potato

6. Man gets latex from _____ of rubber trees.

(1) roots

(2) branches

(3) seeds

(4) trunks

7. Cotton, linen, silk and wool are materials for making garments. Which of these materials come from plants?

(1) silk and wool

(2) silk and linen

(3) cotton and wool

(4) cotton and linen

8. The seals, sea-lions and walruses have various adaptations to enable them to survive in the sea. They have _____.

- A) a streamlined body shape
- B) webbed feet
- C) the ability to shut their nostrils under water
- D) flippers

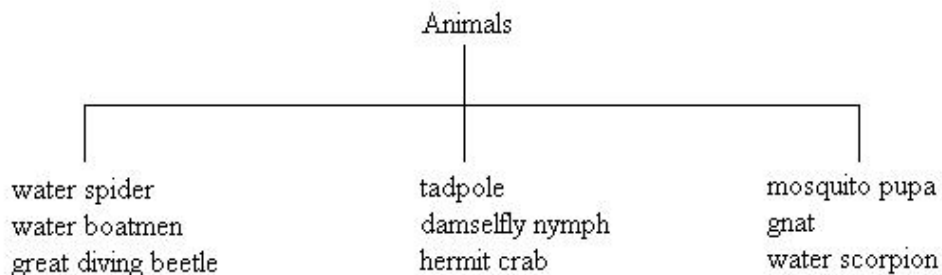
- (1) A, B and C
- (2) B, C and D
- (3) A, C and D
- (4) A, B and D

9. Which of the characteristics below enable a camel to survive in the sandy desert?

- A) big eyes and small ears
- B) produces little sweat and urine
- C) strong legs with padded hooves
- D) ability to store water in its body

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

10.



The animals listed in the table above are grouped according to _____.

- (1) their habitat
- (2) the way they move
- (3) how they breathe
- (4) their body covering

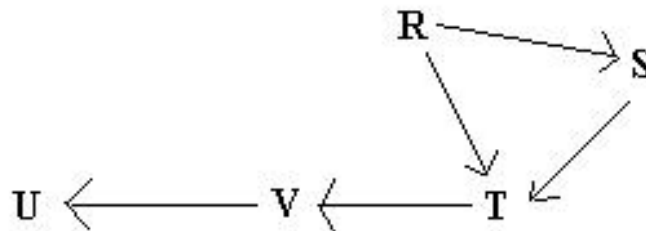
11. Jason learnt that iodine turns dark blue in the presence of starch. He used iodine to test four different types of white powder and recorded the results in the table below.

Powder	Iodine turns dark blue
A	Yes
B	No
C	Yes
D	Yes

Which one of the following is the probable contents of the 4 powder?

	A	B	C	D
1	Chalk powder	Wheat flour	Icing sugar	Rice flour
2	Rice flour	Talcum powder	Tapioca flour	Sweet potato flour
3	Chalk powder	Icing sugar	Rice flour	Wheat flour
4	Baking powder	Wheat flour	Chalk powder	Icing sugar

12. Study the given food web.



An increase in the population of organisms **V** is likely to cause _____.

- A) an increase in the population of organisms S.
- B) an increase in the population of organisms U.
- C) a decrease in the population of organisms R.
- D) a decrease in the population of organisms T.

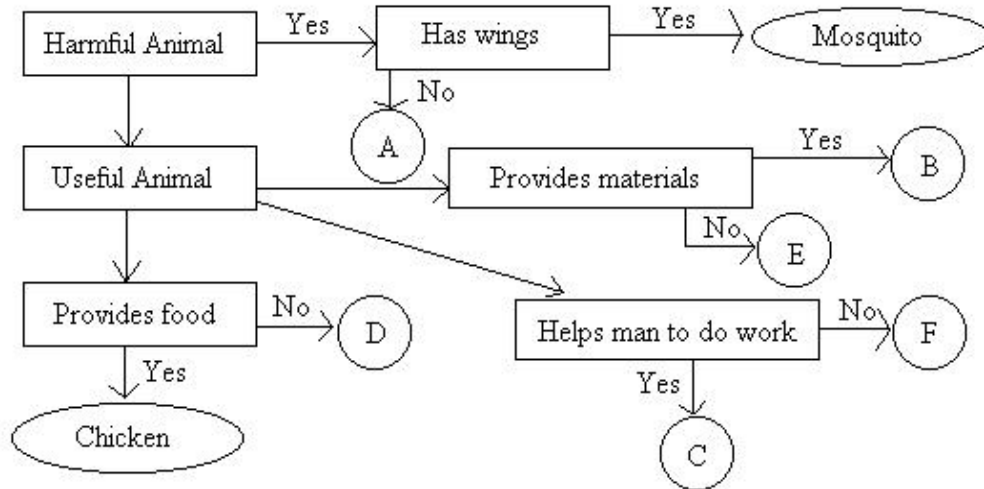
- (1) A and B
- (3) B, C and D

- (2) A and D
- (4) A, B and D

13. Which one of the following is classified correctly?

	Spread Disease	Harmful to Plants	Useful to Plants
1	Wasp	Weevils	Aphids
2	Silverfish	Locusts	Earthworms
3	Caterpillars	Earthworms	Hornets
4	Rats	Aphids	Ladybirds

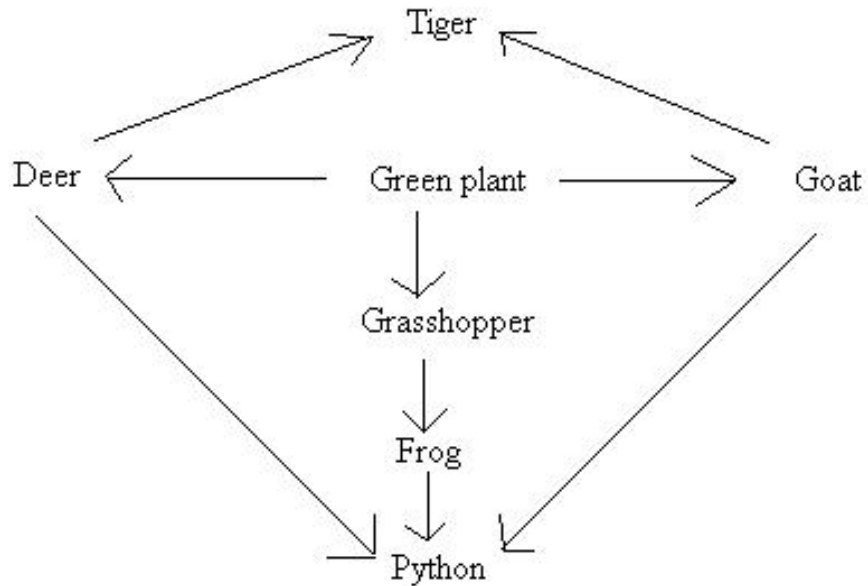
14. Study the chart carefully.



What animals could A, B and C represent?

	A	B	C
1)	Snail	Crocodile	Elephant
2)	Bee	Snake	Camel
3)	Earthworm	Sheep	Buffalo
4)	Scorpion	Dog	Goat

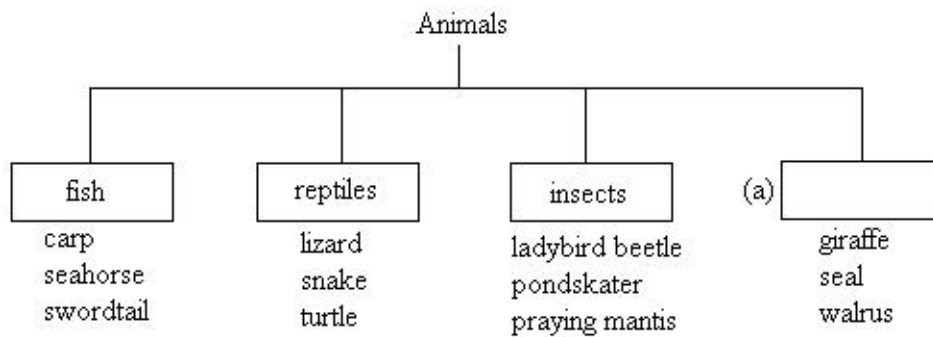
15. Study the food web.



How many food chains are there?

- (1) 3
- (2) 4
- (3) 5
- (4) 7

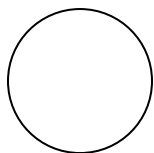
16. Study the classification diagram.



What will be a suitable heading for (a)?

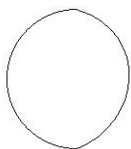
- (1) amphibians
- (2) mammals
- (3) arachnids
- (4) mollusks

17. The shape of the Moon on 1 April is shown below.

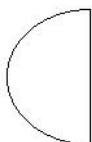


What is the likely shape of the Moon on 11 April?

1)



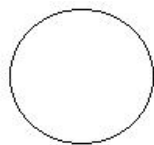
2)



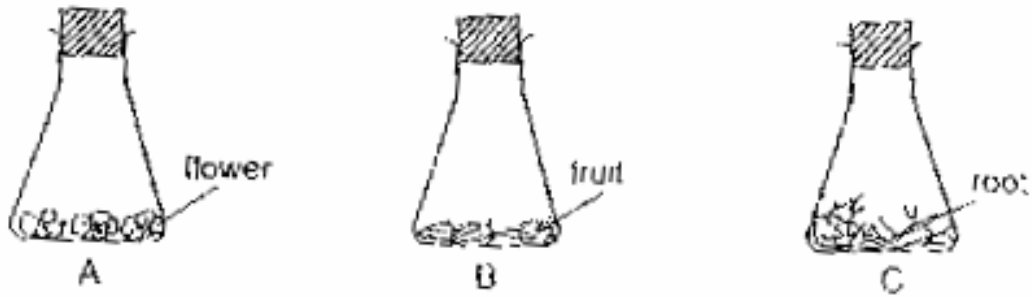
3)



4)



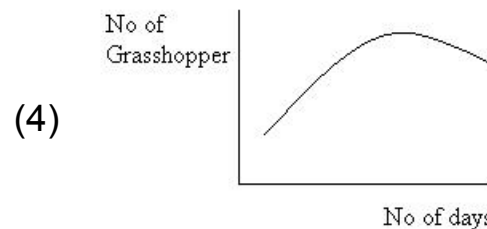
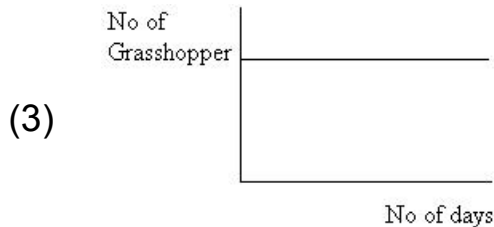
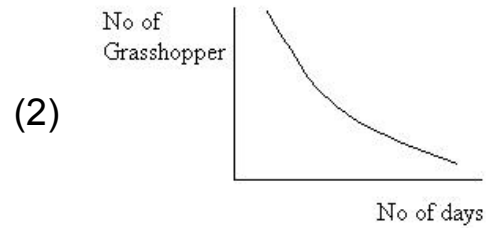
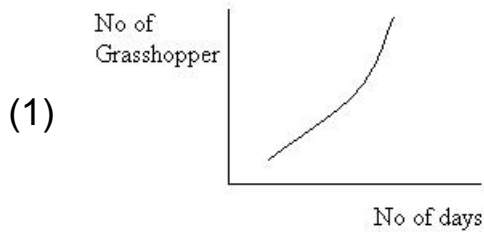
18.



Different parts of a balsam plant were cut and immediately placed in different flasks as shown above. In which of the flasks will water droplets appear after three days?

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

19. Menghui kept 20 grasshoppers in a glass tank. He then put a toad into the tank. Which one of the following graphs shows what would happen to the population of grasshoppers after 5 days?



20. 4 pieces of cakes were kept under different conditions for a few days as shown in the table. Which piece of cake would be the most mouldy?

	Cake	Warm	Cool	Damp	Dry
1	A		√	√	
2	B	√			√
3	C		√		
4	D	√		√	

21. Which of the following does not describe an earthworm?

- 1) Its burrowing destroys the soil.
- 2) Its body is segmented.
- 3) The leaves it brings into the burrow decomposes and becomes nutrients in the soil.
- 4) Its worms casts enrich the soil.

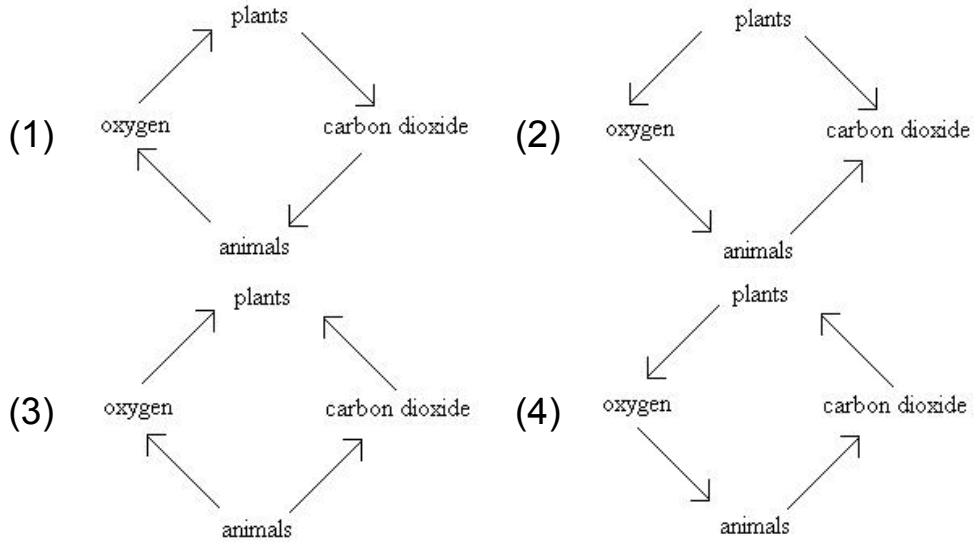
22. The blubber is a thick layer of fat found under the skin of polar bears and other mammals living in the cold. This important adaptation helps to

- A) keep the animals warm.
- B) allow the animals to float in the water.
- C) overcome water resistance as the animals swim.
- D) protect the animals from their enemies.

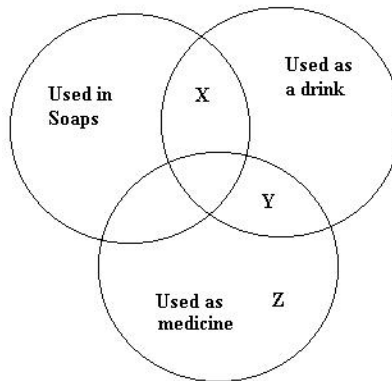
- (1) A only
- (3) A and C only

- (2) A and B only
- (4) A and D only

23. Which of the following diagrams shows the process of plants exchanging gases with animals in the presence of light?



24. Study the Venn diagram carefully.



Which of the plants can be represented by X, Y, Z?

	X	Y	Z
1	Rose	Tea	Cocoa
2	Frangipani	Coffee	Aloe Vera
3	Jasmine	Chrysanthemum	Poppy
4	Carnation	Coconut	Tobacco

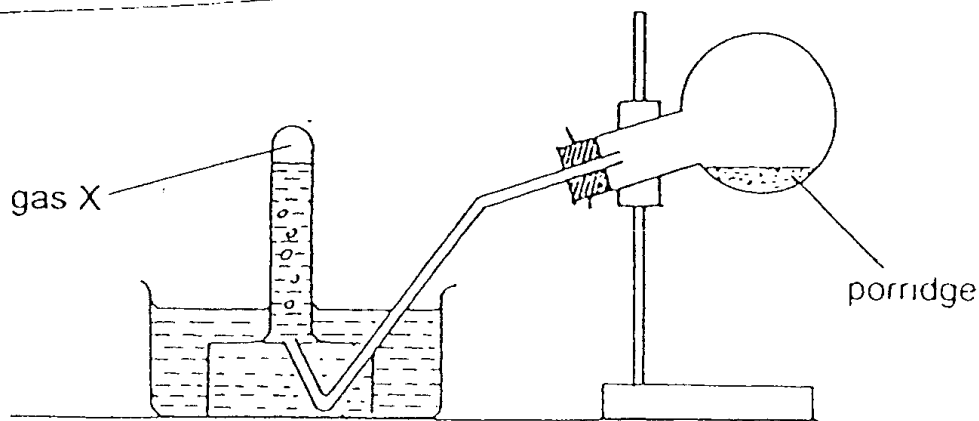
25. How is sheep useful to Man?
A. Provide Man with meat.
B. Help Man to transport goods.
C. The skin covering can be used to make warm clothing.
D. Help to control the population of plants in a field.

- 1) A, B and C
2) A, B and D
3) A, C and D
4) B, C and D

26. Which one of the following statements is true of decomposers?

- 1) Fungi and bacteria help to decay food
2) Decomposers can grow in cold and dry places.
3) Moulds only grow on dry substances
4) Bacteria cannot grow in bright places

27. The experiment is set up and left for a few days.



The gas collected in the test tube is _____

- (1) nitrogen
(2) oxygen
(3) carbon dioxide
(4) hydrogen

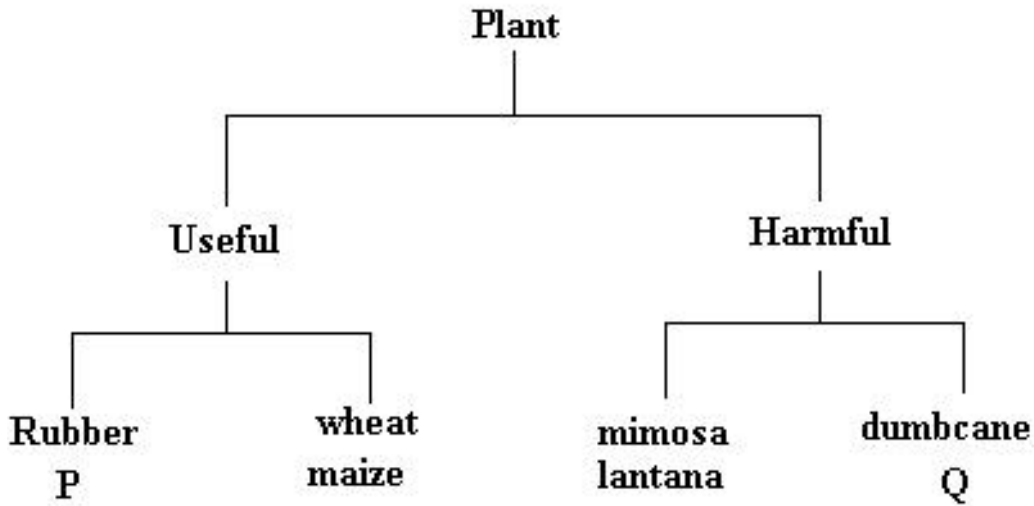
28. Which one of the following animals is a pest?

- (1) bee (2) frog
 (3) butterfly (4) caterpillar

29. In which one of the following places will the action of decomposers be slowed down?

- (1) river bed (2) frozen pond
 (3) sewage works (4) leaf litter

30. Study the classification table below.



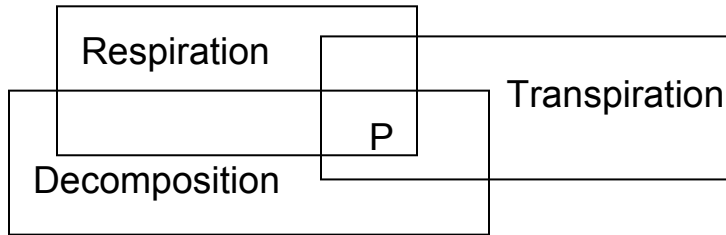
Which of the following plants do P & Q represent?

	X	Y	Z
1	Rose	Tea	Cocoa
2	Frangipani	Coffee	Aloe Vera
3	Jasmine	Chrysanthemum	Poppy
4	Carnation	Coconut	Tobacco

Section B (40 marks)

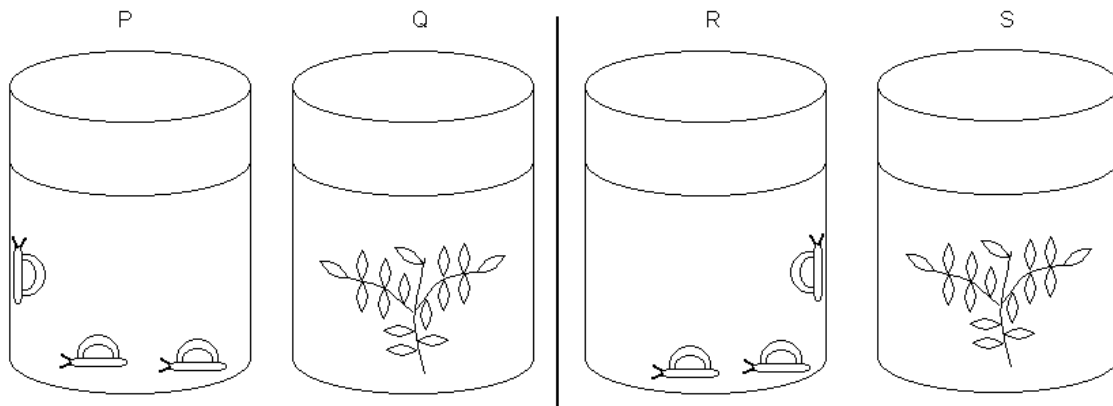
Write your answers for each question 31 to 46 in the blank spaces provided. Marks will be deducted for wrong spelling of key words.

31.



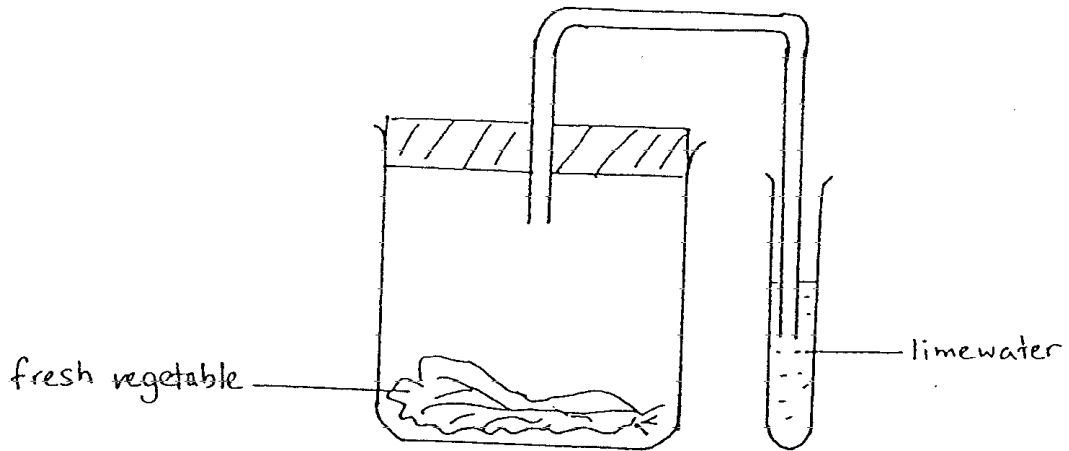
- a) In the above life process, a common product formed at P is likely to be _____ (1 m)
- b) Which of the 3 processes above occurred the slowest? _____ is the slowest process. (1 m).

32. 4 sealed containers with aquatic plants and animals were set up as shown in the diagram below. They were left standing for 12 hours.



- a) At the end of the experiment, in which of the following container of water would you expect the **least** amount of carbon dioxide? (1 m)
- _____
- b) Give a reason for your choice. (1 m)
- _____

33.



The above experiment was set up by some pupils and observed for 10 days.

a) What would happen to the vegetable after 10 days? (1 m)

b) What is the purpose of the lime water in this experiment? (1 m)

34. a) Why is grass growing in a vegetable plot harmful? (1 m)

b) Why is grass growing on a hill slope useful? (1 m)

35. The table below shows some characteristics of plants. Put a tick (✓) in the columns that best describe each of them. (4 m)

Plant	Source of material	Provide food	Poisonous	Provide shade
Coconut tree				
Rain Tree				
Poinsettia				
Pong Pong				

36. A magnet is brought close to each of the items below. Tick the ones that will be attracted by the magnet. (1 m)

a)

A steel ruler

A copper wire

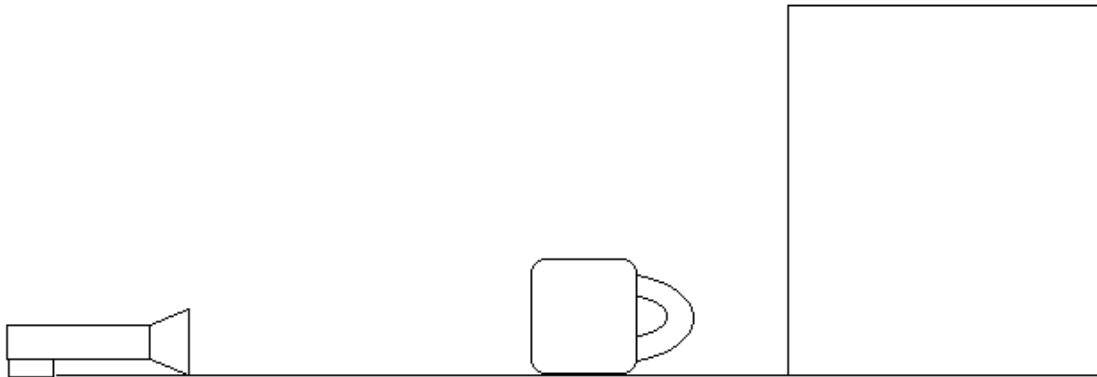
A silver ring

An iron nail

b) When a bar magnet is brought near another bar magnet, it pushes the second magnet away. Why is this so?

c) How does a permanent magnet lost its magnetism?
(Describe one method only) (1 m)

37.



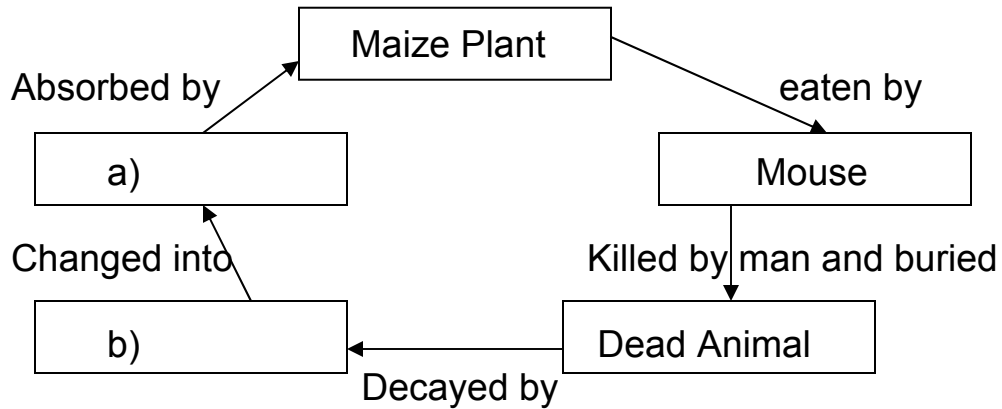
The diagram above shows a torch shining directly on a porcelain mug with its handle facing the screen. The mug is some distance away from the screen in a dark room.

- a) In the space on the screen, draw the shadow cast by the mug on the screen according to scale. (1 m)
- b) In order to increase the size of the shadow, the _____ should be moved _____ to/from the screen.

38. Name the plant part of each of the following that we eat. (2 m)

	Plant	Plant parts that we eat
A	Broccoli	
B	Sugar Cane	
C	Cucumber	
D	Carrot	

39. Study the diagram carefully and fill in the boxes with the most suitable answers. (2 m)



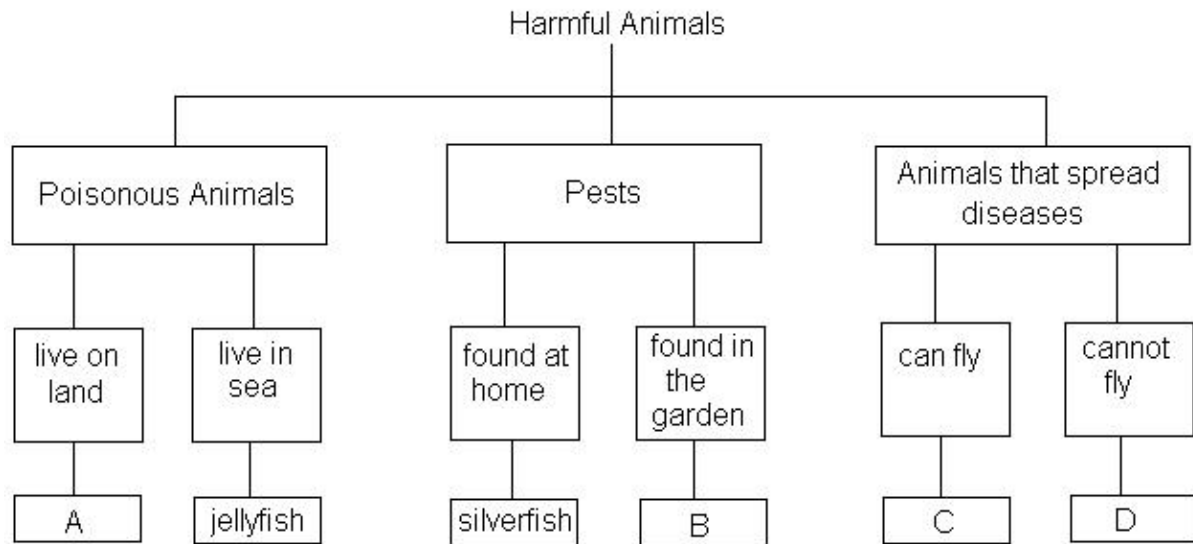
40. The table below shows the time taken for meat to go bad at different temperatures.

Temperature	10 °C	15 °C	20 °C	25 °C	30 °C
Time taken for meat to go bad	48 h	23.5 h	12 h	?	4.5 h

- a) How long would it take for the meat to go bad at 25 °C? (1 m)

- b) What do you notice about the relationship between the temperature and the time taken for the meat to go bad? (1 m)

41.



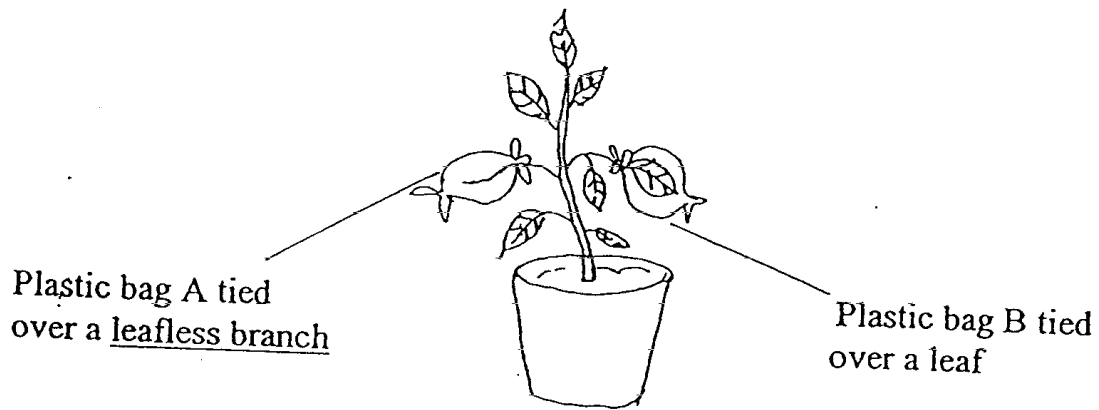
a) Study the table above and place the following animals in the correct boxes (2 m)

Housefly	Caterpillar	Rat	Scorpion
----------	-------------	-----	----------

A: _____
B: _____
C: _____
D: _____

b) Using the above information, what can you say about the jelly fish? (1 m)

42. Jack placed a well-watered plant in the garden on a sunny day for several hours.



- c) What would he find in Plastic bag B? (1 m)

- d) What was the use of the Plastic bag A? (1 m)

- e) What did Jack want to find out from this experiment? (1 m)

43. Study the three animals given below.

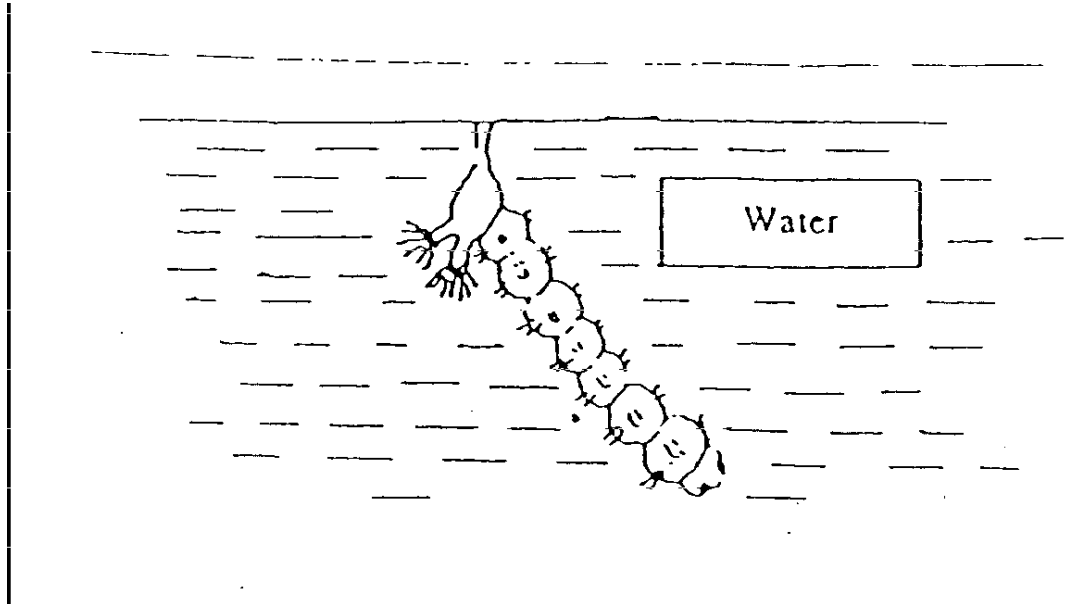
Earthworm snail slug

- a) Which animal would a bird have difficulty killing? (1 m)

- b) Give a reason for your answer in (a) (1 m)

- c) The bird would be considered a harmful animal if it eats one of the above animals. Why?

44.



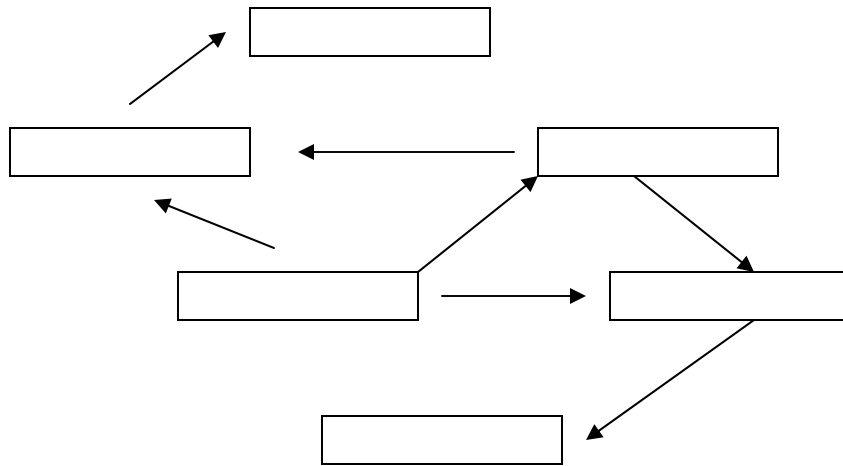
a) This organism in the picture above is found in the water of a pond. How does it breathe? (1 m)

b) Suggest a 'green' method (a method that does not harm the environment) to stop this organism from breathing. (1 m)

45. The table below shows the food eaten by some animals in a pond.

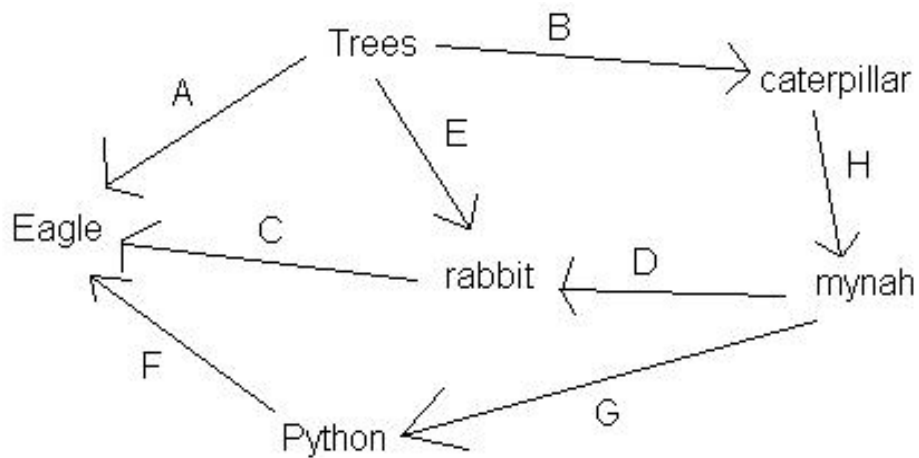
Animal	Food eaten
Water flea	Algae
Water boatman	Algae, water flea
Tilapia	Algae, water flea
Dragonfly nymph	Water boatman
Kingfisher	Tilapia

a. Complete the food web using the information given above.
(3 m)



b. Which two animals compete for the water flea? (1 m)

46. The food web shows the relationship between some organisms in a forest habitat.



Which arrows are wrongly drawn? (2m)
