

**Primary Five
Science
Continual Assessment Two**

Section A (30 marks)

For each question from 1 to 15, four options are given. One of these is the correct answer. Mark your choice [1, 2, 3, 4] in the given box.

1. In which of the following processes is heat being lost to the surrounding?

- A : Water becoming steam.
- B : Ice melting to become water.
- C : Boiling water cooling to room temperature
- D : Steam condensing to become water droplets.

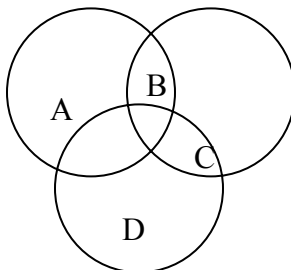
- (1) A and B
- (2) A and C
- (3) B and D
- (4) C and D

2. Look at the list of activities below.

	Activities
A	Blowing up a balloon
B	Burning a piece of newspaper
C	Grilling a slice of fish
D	Mixing blue and red paint

The changes are represented in the Venn diagram shown below.

Change in size



Which of the activities is presented incorrectly?

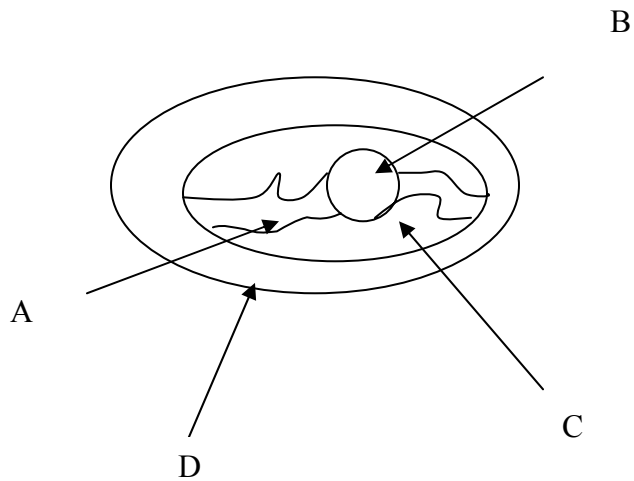
- (1) A
- (2) B
- (3) C
- (4) D

3. Which of the following CANNOT make its food?

- A : Algae
- B : Hydrilla
- C : Dumbcane
- D: Bracket Fungus

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

4. Which part of the egg can the female egg cell be found?



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

5. Which of the following eggs will take the longest time to hatch?

- (1) Frog
- (2) Butterfly
- (3) Mosquito
- (4) Cockroach

6. A female toad can lay 6000 eggs at one time. Why is this necessary?

- (1) The female toad is more fertile than other animals.
- (2) They are an important source of food for other animals.
- (3) This is to increase the chances of survival of some of the eggs.
- (4) This ensures that the food relationship is balanced within a community.

7. The table below shows four pots J, K, L and M with stalks of flower in them.

Pots	Number of stalks	Amount of X	Amount of water
J	2	None	100 ml
K	1	3 mg	150 ml
L	1	5 mg	100 ml
M	1	None	150 ml

Lisa wants to find out whether chemical X helps the flowers survive for a longer time. Which two pots should she use for the experiment to make it a fair one?

- (1) J and K
- (2) K and L
- (3) L and M
- (4) K and M

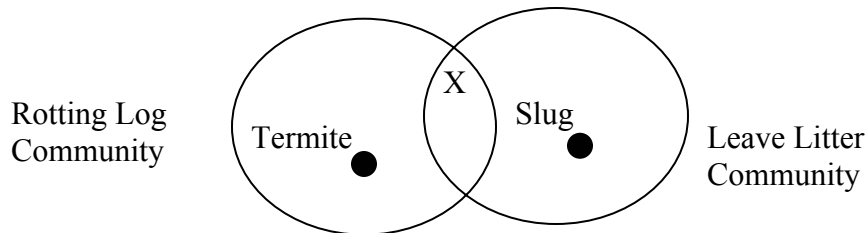
8.

Description	Organism X	Organism Y
Lays eggs	Yes	Yes
Number of stages in the life-cycle	3	4
Young resembles the parent	Yes	No
Method of fertilization	Internal	Internal

Use the information given in the table above to identify Organism X and Organism Y.

	Organism X	Organism Y
(1)	Tilapia	Grasshopper
(2)	Duck	Butterfly
(3)	Frog	Housefly
(4)	Cockroach	Bear

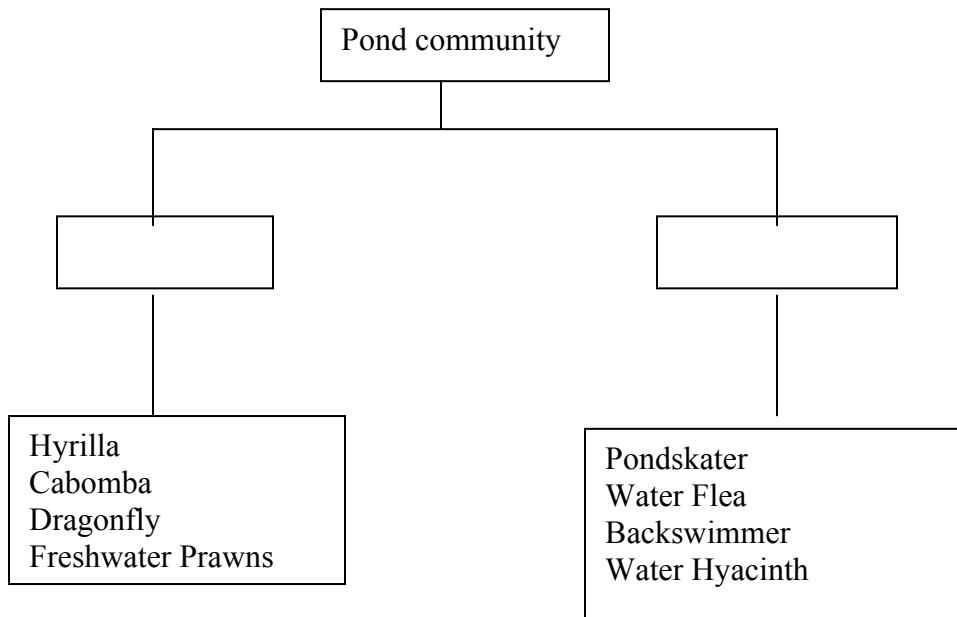
9.



A suitable example of X is the _____.

- (1) Millipede
- (2) Caterpillar
- (3) Grasshopper
- (4) Great Diving Beetle

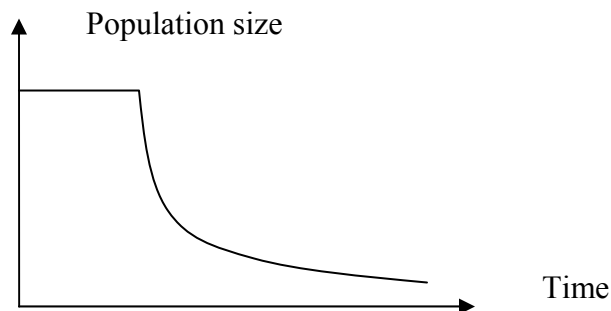
10.



These organisms are classified according to _____.

- (1) Prey and predator
- (2) Their dependency on one another
- (3) Where they may be found in the pond
- (4) Whether they are harmful to the environment

11. The graph shows how a population of grasshoppers changes with time.

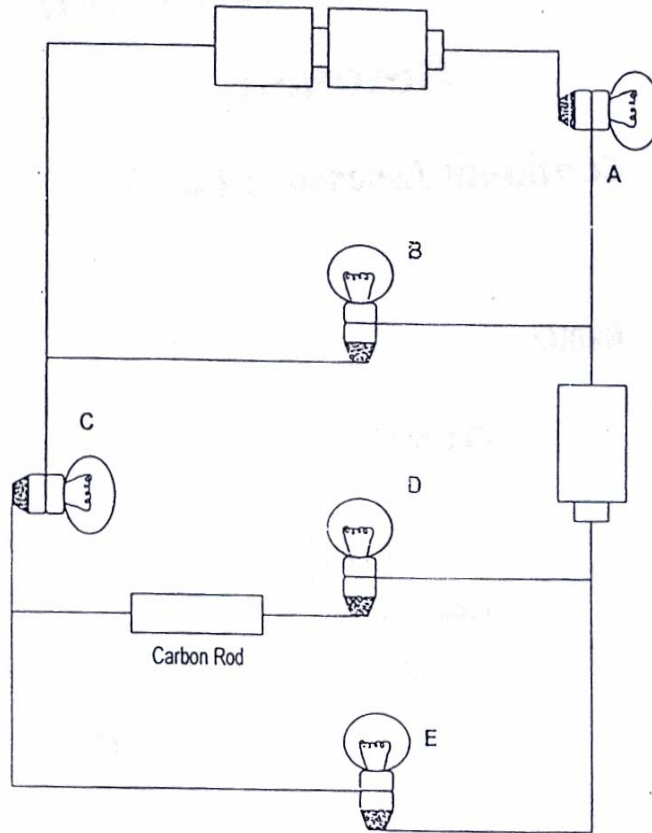


Which of the following is/ are responsible for the change?

- A : Indiscriminate hunting by humans
- B : Increase of mynahs in the community
- C : Sudden spread of disease amongst the plants
- D : Increase of mosquito in the area where the grasshoppers are found

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

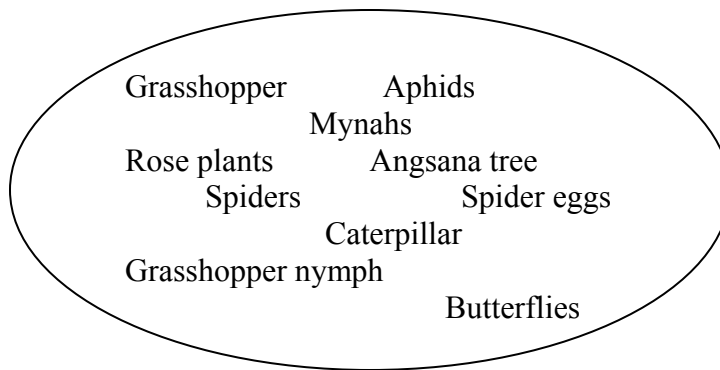
12. Study the circuit diagram below.



If Bulb C fuses, bulbs _____ will still light up.

- (1) A and B
- (2) A, B and E
- (3) A, B, D and E
- (4) None of the bulbs will light up

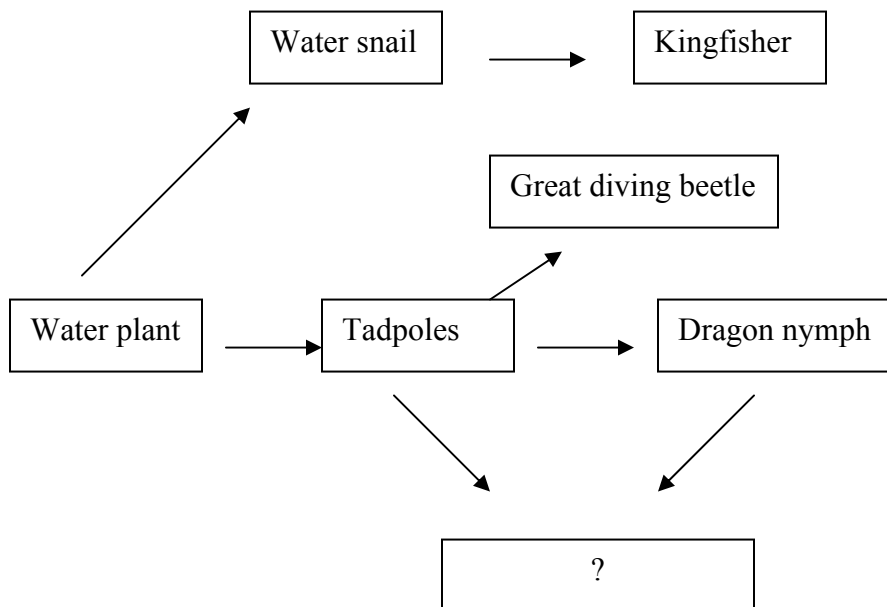
13.



Look at the diagram above and identify the total number of populations within the community.

- (1) 7
- (2) 8
- (3) 9
- (4) 10

14. Study the food web below.

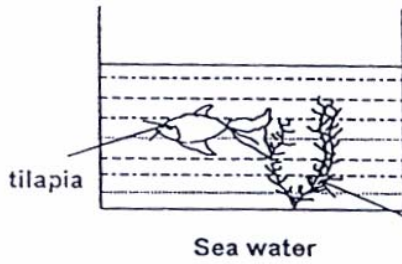


What is the organism that best fits the empty box in the above food web?

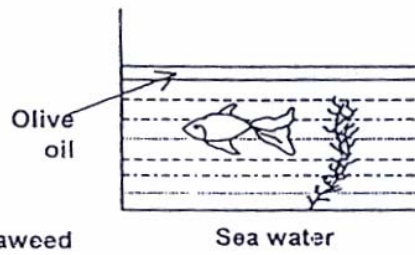
- (1) Wiggler
- (2) Water snail
- (3) Tubifex worm
- (4) Water stick insect

15. In which of the following tanks will the tilapia live longest?

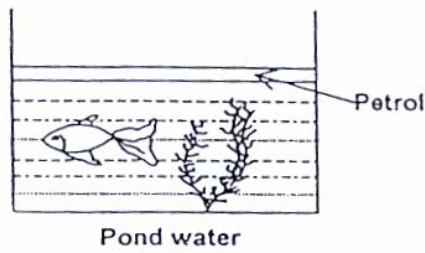
(1)



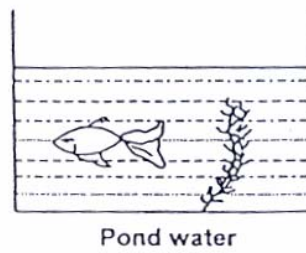
(2)



(3)



(4)



Section B (20 marks)

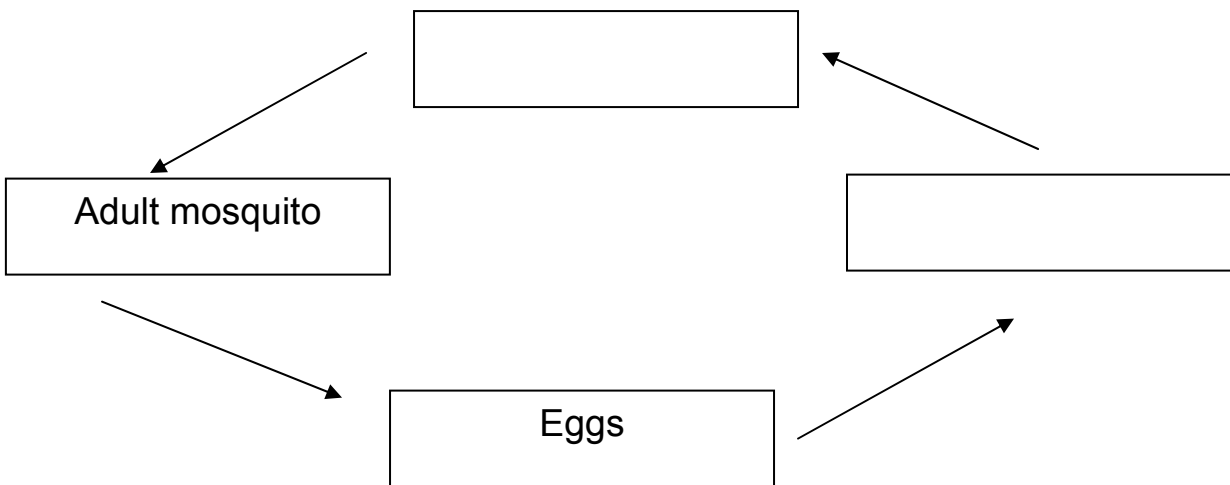
Write your answers for questions 16 to 23 in the spaces provided.

16. Plants are useful to animals because they provide them with food, oxygen and shelter. List two ways in which animals are useful to plants. (2m)

(a)

(b)

17. The diagram below shows the life-cycle of a mosquito.



(a) Write in the space provided the names of the stages of the mosquito life-cycle.(1m)

(b) At which stage (s) of the life-cycle is it easier to kill the mosquito? Explain how you would do that and why it is easy to kill them. (3m)

18. Lisa accidentally mixed some salt with sand. What are the steps she would need to take to separate the salt and sand? (3m)

19. W, X, Y and Z represent four organisms living together in a particular habitat. Use the clues below and complete the food chain. Fill in the appropriate letter s in the boxes provided. (2m)

Clues :

W is the prey of Y
 X is the predator of Y
 X is the prey of Z



If W and X are fly and python respectively, identify what Y and Z could be. (1m)

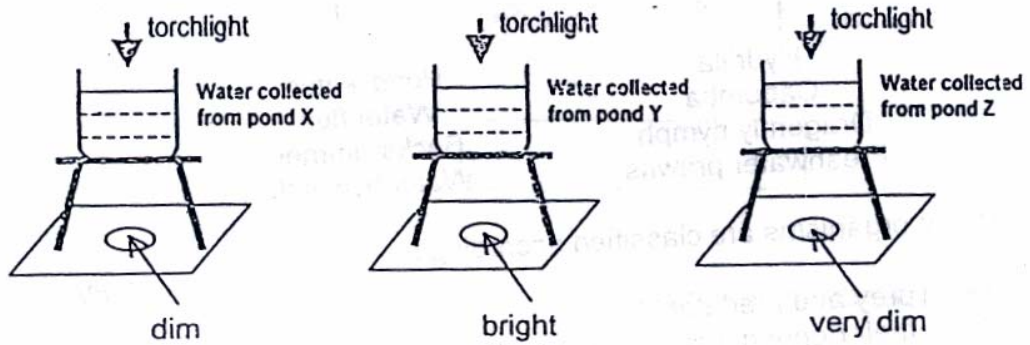
Y: _____

Z: _____

20. John wants to rear some wood lice in a glass tank for the Science corner in the classroom. In order to keep them alive for a week, he needs to ensure that the conditions are suitable. Tick in the boxes the things he would need and what he needs to do. (2m)

Damp soil	
Coarse sand	
Green leaves	
Brown leaves	
Water	
Fertilizer	
Exposure to bright sunlight	
Cover with a dark paper	

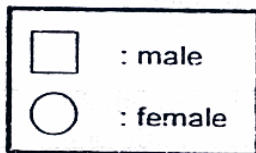
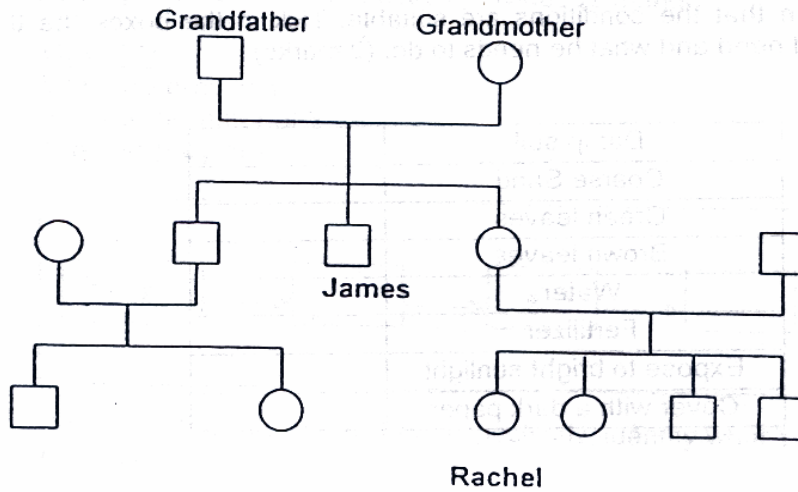
21. Water from three different ponds is collected and set up as shown below.



(a) Identify the pond which aquatic plants will survive best. (1m)

(b) Explain your answer. (1m)

22. The diagram below shows Rachel's family tree.



- (a) The grandparents have _____ grandsons and _____ granddaughters. (1m)
- (b) How is Rachel related to James? (1m)
James is Rachel's _____.

23. Fill in each blank with a suitable word. (2m)

On a humid day, our bodies tend to feel very sticky. The water on our skin evaporates _____ as there is more water vapour in the surrounding air. However, once we step into an air-conditioned room, we feel cool quickly, as the rate of evaporation is _____. The moment we step out of the room, we begin to feel the heat. Not only that, if you happen to be wearing glasses, it begins to fog up due to the _____ of water vapour from the surrounding air on the _____ surface of the glasses.