



Class :5

Time: 2 hrs 15 minutes

**Instructions**

- **15 minutes cool-off time** is allotted for reading and understanding the activities.
- Answer any six questions.

**1.**

- a) Examine the food chains given below and write down the correct one.
- A. Grass → Tiger → Cow  
 B. Grass → Grasshopper → Frog → Snake  
 C. Grass → Grasshopper → Rabbit → Fox  
 D. Grass → Leopard → Frog → Rabbit → Eagle
- b) Explain the change that will happen in the food chain when the number of Indian rat snake decreases.
- Paddy → Rat → Rat snake → Eagle
- c) Prepare a food web including the organisms given below.

Frog, Grass, Grasshopper, Worm, Hen, Fox, Vulture, Snake
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**2.**

- a) Paddy field, pond, desert, grasslands, forest, ocean, mangrove and polar region are different types of habitats. Find out the habitat of the following organisms.

Organisms	Habitat
Camel	
Tiger	
Polar bear	
Dolphin	

- b) Observe the figure.



Which is the invasive organism? Write down the changes that may occur in the water resource near your area, if this organism reaches in the water resource.

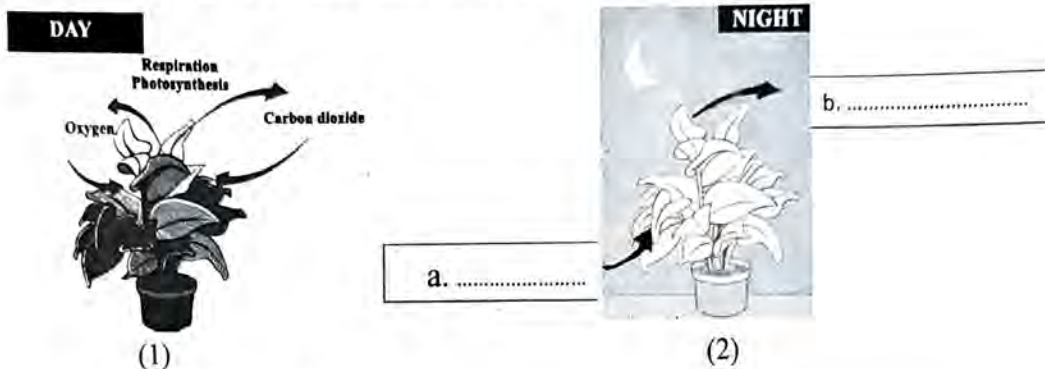
- c) The table given below shows the colours in plants and the pigments responsible for the colours. Examine the table and find out the correct pairs from the options.

1. Green	a. Xanthophyll
2. Red	b. Carotene
3. Orange	c. Chlorophyll
4. Yellow	d. Anthocyanin

- A. 1-a, 2-b, 3-c, 4-d
- B. 1-c, 2-a, 3-b, 4-d
- C. 1-c, 2-d, 3-b, 4-a
- D. 1-c, 2-b, 3-a, 4-d

3.

a) Figures (1) and (2) show the gaseous exchange that takes place in plants during day and night. Observe figure (2) and write down the gases a and b.



b) Fill in the blanks accordingly.

I prepare food for myself. But I absorb water and minerals from the host plant.

a. ....

b. ....

Vanda

c) Read the following statements.

- i) All organisms use oxygen and carbon dioxide for respiration.
- ii) Carbon dioxide formed in plants as a result of respiration is utilized for photosynthesis during day time.
- iii) Plants utilize atmospheric carbon dioxide for photosynthesis.
- iv) Gaseous exchange in plants occurs through the minute pores called stomata.

Choose the correct set.

- a) ii, iii, iv Correct
- b) i, ii, iii Correct
- c) i, iii, iv Correct
- d) i, ii, iv Correct

4. This question has two parts 4(A) and 4(B). Answer either 4(A) or 4(B) completely.

4. (A)

**Dengue fever spreads**

**Nelmala: Dengue fever spreads in Nelmala panchayat. This disease is spread by an organism that lays eggs in water in the discarded plastic bags. The panchayat and the Health Department are taking necessary initial steps to control dengue fever.**

Did you notice the news report?

- Which organism spreads dengue fever?
- Write two other measures to avoid the conditions which favour the spread of this organism?
- There are diseases other than communicable diseases. Examine and complete the table given below.

a .....	Communicable diseases
Heart disease	b. ....
Cancer	Conjunctivitis
c. ....	Jaundice
Diabetes	d. ....

OR

4. (B)

- The table given below shows the way in which organisms enter the body and the diseases they cause. Complete the table suitably.

Ways of entry into the body	Diseases
Through soil →	1) .....
2)..... →	Tuberculosis
Through food and water →	3.....
4)..... →	Leprosy

- We can take care to prevent diseases by maintaining personal hygiene. Write four other measures to be taken care of to prevent diseases.
- Examine the statement and reason given below and write the correct option.

**Statement – Bud rot spreads quickly to coconut trees.**

**Reason - Plants also affect infections like animals.**

- Statement is correct, but the reason is wrong.
- Statement is wrong, the reason is correct.
- Statement and reason are correct.
- Statement and reason are wrong.

5.



- Did you notice the conversation? Vaccinations should be taken even in the absence of illness. Write your opinion on this statement.
- Read the situations given below.
  - Rice batter ferments
  - Removes dirt from the clothes.
  - Decomposes organic remains and adds to soil.
  - Transmits communicable diseases.

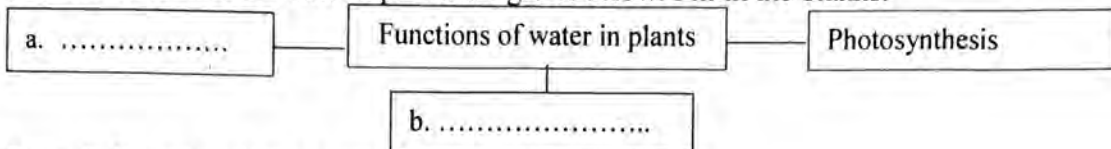
Choose the situations in which microorganisms are useful.

- A. Situation 1, 2                      B. Situation 1, 3  
C. Situation 1, 4                      D. Situation 3, 4

c) Prepare a poster on 'Environmental Hygiene' as part of the poster exhibition organized by the Health Club.

6. Question 6 has two parts 6(A) and 6(B). Answer either 6(A) or 6(B) completely.

6. (A) The functions of water in plants are given below. Fill in the blanks.



b) Some information from a water test result is given below.

Component examined	Presence
Colour	No
Odour	Yes
Bacteria	Yes

Can this water be used for drinking? Explain the reason.

c) Find and write the correct statement from the following.

- A. The heart contains the most water in the human body.  
B. The blood contains the most water in the human body.  
C. The bones contain the most water in the human body.  
D. The brain contains the most water in the human body.

OR

6. (B)

a) Various stages of water purification are given below. Write them in order.

- It permits impurities to settle.
- It filters large impurities.
- It destroys pathogens.
- It filters using different layered sieves.

b) The ability of objects to float on water enables us to travel on a raft. Write two other situations where this ability is used.

c) Two statements related to water supply system are given below.

**Statement 1 – Water from the rivers are purified and supplied to homes for drinking and other purposes.**

**Statement - 2 Water from the rivers is pumped directly to the homes.**

Which of the following is correct.

- A. Statement 1 is true, Statement 2 is false.  
B. Statement 1 is false, Statement 2 is true.  
C. Statement 1, 2 are true.  
D. Statement 1, 2 are false.