UNIT : 4. OUR ENVIRONMENT

CLASS : VI

SUBJECT : SCIENCE

I.Choose the appropriate answer

1. Identify the fresh water ecosystem.
   a. Pond   b. Lake   c. River   **d. All of them**

2. Producers are_____
   a. Animals   b. Birds   **c. Plants**   d. Snakes

3. It is a biodegradable waste.
   a. Plastic   **b. Coconut Shell**   c. Glass   d. Aluminium

4. It is an undesirable change that occurs in air and water.
   a. Recycling   b. Reuse   **c. Pollution**   d. Reduce

5. Usage of chemical pesticides and fertilisers causes _____ pollution.
   a. Air pollution   **b.Water pollution**
   c. Noise pollution   d. None of the above

II.Fill in the blanks

1. Primary consumers that eat plants are called **Herbivores.**

2. Temperature, light and wind are **Physical** factors.

3. **Recycling** is the process of converting waste materials into new materials.

4. Water pollution can spread **Diseases** and chemicals.

5. The 3R's are Reduce, **Reuse** and Recycle.

III. True or False. If False, give the correct statement

1. The Pacific ocean is an example of an aquatic ecosystem.   **True**

2. Bacteria and fungi are called decomposers.   **True**

3. Human and animal wastes are examples of non-biodegradable waste. **False**

4. Excessive use of pesticides leads to air pollution.   **False**

5. In schools, waste management rules say that we should separate waste in two categories.   **True**

IV. Match the following

1. Biotic factor   –   Animals
2. Sewage   -   Water Pollution
3. Fertilizers   -   Land pollution
4. Desert   -   Terrestrial Ecosystem
5. Smoke   -   Air pollution

V. Arrange the following in a correct sequence and form a food chain

1. Rabbit Carrot Eagle Snake   -   Carrot → Rabbit → Snake → Eagle
2. Human Insect Algae Fish   -   Algae → Insect → Fish → Human

VI. Give very short answer

1. Define ecosystem.

An ecosystem is a community of living or biotic and non-living or a biotic things that work together.

2. What are the two types of ecosystems?

Types of ecosystems :
- ➢ Natural ecosystem
- ➢ Artificial ecosystem

3. Write any two things that can be recycled.

- ➢ Old clothes
- ➢ Plastics

4. What are the types of pollution.

There are four major kinds of pollution :
- ➢ Air Pollution.
- ➢ Water Pollution.
- ➢ Land (Soil) Pollution.
- ➢ Noise Pollution

5. Give one example of a food chain in an aquatic ecosystem?

Food chain in aquatic ecosystem.

    Aquatic plant → Aquatic insect → Larva → Fish.

6. Name some pollutants.

- ➢ Toxic gases and fine particles from burning fossil fuels, chemicals released from factories.
- ➢ Sewage, industrial effluents, pesticides and fertilizers
- ➢ Plastics and electronics are land pollutants.

7. What are the pollutions caused by the objects given below?

    a. Loud Speaker   –   Noise Pollution.
    b. Plastic   –   Land Pollution.

VII. Give short answer

1. What is biodegradable waste?

The term "Biodegradable" is used for those things that can be easily decomposed by natural agents like water, oxygen, ultraviolet rays of sun and

microorganisms etc.

2. How can we reduce water pollution?

- ❖ Do not pour leftover oil, old medicines or waste down the drain or into the toilet.
- ❖ Reduce the use of chemical pesticides and fertilizers to grow crops.
- ❖ Reduce the use of detergents and bleach to wash clothes.
- ❖ Do not litter or dump waste always use a waste bin.

3. Write the importance of the food chain.

Importance of food chain

- ❖ Learning food chain help us to understand the feeding relationship and interaction between organisms in any ecosystem.
- ❖ Understanding the food chain also helps us to appreciate the energy flow and nutrient circulation in an ecosystem.
- ❖ This is important because pollution impacts the ecosystem. The food chain can be used to understand the movement of toxic substances and their impacts.

VIII. Answer in detail

1. Give two examples of how you can avoid or reduce waste?

- ❖ Examples of how we can Avoid waste:-
  Avoid buying packaged foods. Refuse to buy 'use-and-throw' plastic products.
- ❖ Examples of how we can Reduce waste:-
- ❖ Write on both sides on paper
- ❖ Share newspaper and magazines with others.

2. Write a short note on noise pollution.

1. Noise pollution is caused by loud sounds.
2. Loud music, the sounds of motor vehicles, fireworks and machines cause noise pollution which affects the environment.
3. We all like a quiet and peaceful place since unpleasant or loud sounds disturb us.
4. Continuous noise disturbs our sleep and does not let us study.
5. It leads to stress and health impacts such as high blood pressure and hearing loss.
6. Loud noise or music can damage our ears.
7. It also disturbs animals. For example in noisy areas birds have to communicate louder so they can hear each other.

Even underwater noise pollution from ships can make whales lose their way as they use sounds to navigate.

IX. Question based on Higher Order Thinking Skills

1. What would happen if an organism is removed from the food chain?

- ❖ If an organism is removed from the food chain,
- ❖ The food chain will fall apart.
- ❖ The ecosystem will become imbalance and collapse.
- ❖ For example, Consider a food chain: Plants → grasshoppers → frogs → snakes → hawks.
- ❖ If frogs were to die off in this chain, (due to disease/pollutants), then, there will be an increase in the number of grasshoppers. This will cause a major problem.

2. Explain the link between waste and dangerous diseases like dengue and malaria?

- ❖ Dengue and malaria fever are caused by the bite of mosquitoes.
- ❖ Accumulation of waste and stagnant water or uncovered containers of stored drinking water are the habitat for breeding mosquitoes.
- ❖ In order to control these infectious diseases, people should maintain clean environment, free from mosquitoes.