

TD 2

Multiple Choice Questions (MCQs)

1. What are the two main components of an ecosystem?

- a) Biotic and Abiotic components
- b) Plants and Animals
- c) Water and Sunlight
- d) Producers and Consumers

2. Which of the following is an abiotic component in an ecosystem?

- a) Animals
- b) Soil
- c) Plants
- d) Bacteria

3. Energy flows in an ecosystem start from:

- a) Consumers
- b) Decomposers
- c) Producers (plants)
- d) Herbivores

4. Which of the following is an example of a terrestrial ecosystem?

- a) Oceans
- b) Coral reefs
- c) Deserts
- d) Estuaries

5. Deforestation leads to all of the following except:

- a) Habitat destruction
- b) Loss of biodiversity
- c) Increased carbon emissions

- d) Reduction in global temperatures
6. **Which type of pollution is caused by the contamination of water bodies with harmful substances?**
- a) Soil pollution
 - b) Air pollution
 - c) Water pollution
 - d) Noise pollution
7. **Which human activity has contributed the most to climate change?**
- a) Urbanization
 - b) Agriculture
 - c) Burning of fossil fuels
 - d) Recycling
8. **Biodiversity refers to:**
- a) The interaction of living and non-living things in an ecosystem
 - b) The variety of life forms on Earth, including species diversity and ecosystem diversity
 - c) The number of plants in a forest
 - d) The amount of carbon dioxide in the atmosphere

Synthesis Questions

1. **Explain the difference between biotic and abiotic components in an ecosystem.**
2. **Describe the process of energy flow in an ecosystem.**
3. **What are the major environmental challenges caused by human activities, and how do they impact ecosystems?**
4. **How does deforestation contribute to climate change?**
5. **Discuss the role of biodiversity in maintaining ecosystem stability.**