

## 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.**