

TD 2

I. 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.
9. What basic needs have humans historically interacted with their environment to meet?
a) Technology and education b) Food, water, and shelter c) Energy and healthcare d) Communication and transportation
10. How has agriculture impacted the natural environment?
a) It has helped restore natural habitats. c) It has resulted in habitat loss, soil degradation, and increased use of chemical inputs. d) It has reduced the need for water resources.
11. Which of the following is NOT an effect of urbanization on the environment?
a) Construction of roads and buildings b) Preservation of natural habitats c) Development of industrial zones d) Loss of ecosystems
12. What are some environmental consequences of resource extraction?
a) Deforestation, pollution, and mining b) Reforestation and increased air quality c) Urban growth

and biodiversity protection d) Soil enrichment and habitat creation

13. Which of the following human activities has most directly led to habitat loss and soil degradation? a) Urbanization b) Tourism c) Agriculture d) Renewable energy production

14. The extraction of fossil fuels is most associated with which of the following outcomes?

- a) Increased biodiversity
- b) Environmental degradation
- c) Development of cleaner technologies
- d) Natural habitat conservation

II. Synthesis Questions

1. What are the major environmental challenges caused by human activities, and how do they impact ecosystems?

2. How does deforestation contribute to climate change?

3. Discuss the role of biodiversity in maintaining ecosystem stability.

4. What are the main negative consequences of human activities on the environment?