

Uka Tarsadia University (Diwaliba Polytechnic)
Diploma in Environmental Engineering
Assignment (Ecology and Environmental Pollution -EV1005)

Unit-1 Introduction

1. Define: Ecology, Autecology, Synecology.
2. What are the objective of ecological studies ?
3. Define : Grass land ecology, Marine ecology, Biotic components
4. Define: Abiotic components, Producers, Consumers.
5. Define: Decomposers, Detrivors, Autocrops.
6. What is the scope of ecological studies?
7. Write steps for environmental conservation.
8. Write role of Individual in protection of environment.

Unit-2 Ecosystem

1. Explain food web with example.
2. Write a factors affecting on ecosystem.
3. Define energy and discuss the energy flow within the ecosystem.
4. Define ecosystem. How many kinds of ecosystems are known to you?
5. Explain with sketch Ecosystem Model in detail.
6. Write functions of ecosystem and give common characteristics of most of the ecosystem.

Unit-3 Ecological Pyramids and Tropic Structures

1. What is food chain and food web?
2. List the common words used with food chain with their meaning.
3. Define ecological pyramid.
4. What is pyramid of biomass?
5. Explain ecological pyramids in details
6. Explain pyramid of number in detail.
7. Explain the concepts of energy flow in an eco-system.
8. Explain with sketch inverted pyramid of tree ecosystem.

Unit-4 Bio-Geo-Chemical Cycles

1. Write a sources of carbon in carbon cycle.
2. What is bio geo chemical cycles? Explain with the help of two suitable examples.
3. Draw the Diagram of water cycle and explain its importance.
4. Write a human impact on hydrological cycle.
5. Draw neat sketch of carbon cycle and explain it.
6. Draw neat sketch of Nitrogen cycle and explain it.
7. Draw neat sketch of Sulphur cycle and explain it.
8. Draw neat sketch of phosphorus cycle and explain it.
9. Explain phosphorus cycle in detail.
10. Discuss the role of Sulphur cycle in acid rain.

Unit-5 Environmental Pollution

1. State pollutants responsible for polluting environment.
2. What is noise and sound?
3. State and explain the various sources of radioactivity in the environment.
4. What is biodegradable organic matter, and how its presence in water is measured?
5. Write short notes on disposal of radioactive wastes into sea.
6. Write short notes on disposal of radioactive wastes into sea.
7. Classify the radioactive wastes and their disposal depending upon their radioactive levels of radioactivity and explain any one.
8. How are soils polluted? Explain the various sources which pollute the soils.
9. Discuss in detail the various sources of noise and their typical noise levels, in a modern society.
10. Write a sources of water pollution in detail.
11. Write drinking water quality standard.
12. Write a water quality characteristic and their sources.
13. How to control water pollution?

Unit-6 Global Environmental Problems

1. What is climate change?
2. Write a sources of greenhouse gases.
3. What is ozone layer depletion ?
4. What is climate change? Explain what you understand by global warming.
5. Enlist physical and social impacts of climate change and explain any one.
6. Define El nino and write in detail causes of occurrence of El nino.
7. Why ozone depletion occur? Describe in detail on Health hazards of ozone depletion.
8. Express your view on Global climate change in detail.
9. Write your views on deforestation and Water Crisis.