

# **FUNDAMENTALS OF ENVIRONMENTAL SCIENCE**

**(ES-115)**

## **Assignment-1**

1. Energy flow in an ecosystem
2. Grassland ecosystem
3. Estuarine Ecosystem
4. Forest Ecosystem
5. Lake Ecosystem
6. Ocean Ecosystem
7. Structure , Characteristics and Function of Pond Ecosystem
8. Environmental movements in India
9. Status of Sustainable development Initiatives in India.
10. Environmental Studies – A Multidisciplinary view
11. Nitrogen Cycle, Carbon cycle and Hydrological Cycle
12. Structure , Characteristics and Function of Cropland ecosystem
13. Structure , Characteristics and Function of Desert Ecosystem
14. Homeostasis in Ecosystem
15. Different types of Energy
16. Solar Energy and its application
17. Biogas energy and its potential in India
18. Fossil fuel and threat to environment
19. Conventional energy sources
20. Modern agriculture and its threats to Environment
21. Scenario of energy potential in India
22. Urban Problems related to energy

23. Biodiesel, Characteristics, Application and Environmental Benefits
24. Mining Activities and its impact on Environment
25. Advantages and limitation of natural gas and its impact on Environment
26. Social economic impact of hydro-electric dams
27. Soil erosion, its type, causing agents and managements
28. Wetland, its type and importance
29. Prepare a chart on Global Biodiversity
30. Prepare a chart on Habitat Degradation

## **Assignment-2**

1. Biogeographic regions of India
2. Forest Vegetation of India
3. Keystone species in conservation Strategies
4. Different measurements of the biodiversity
5. Role of Ethics in biodiversity conservation
6. Invasive alien species and its status in India
7. Endemism, at its status at Global and Indian level
8. International efforts for biodiversity conservation
9. Role of Remote sensing and GIS in Environment studies
10. Marine Pollution its causes and impacts.
11. Land degradation and its cause
12. Solid Waste and its Management
13. Nuclear hazards and its causes.
14. Kyoto protocol and Montreal Protocol
15. Problems of Resettlement in Hydro Dam
16. Corporate Social Responsibility and its importance for biodiversity conservation
17. Religions in biodiversity conservation
18. Wildlife Protection Act
19. Different criteria for hotspot and hotspot of India
20. Role of EIA in Environment conservation
21. Prepare a chart on Water Pollution
22. Prepare a chart on Air Pollution
23. Prepare a chart on Noise Pollution
24. “The Hyogo Framework”
25. Four different phases in disaster management