

UNIT- I

MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

1. Explain the multidisciplinary nature of Environmental science.
2. Define the term Environment and enumerate the importance of Environmental Education in India.
3. Describe the scope of Environmental studies.
4. Explain the interrelated nature of Environmental problems in U.G. programmes.
5. What is the Environmentalism?
6. Explain the Environmental problems due to over utilization of Natural Resources
7. Briefly explain the methods of Assessment of Environmental Degradation
8. Describe the composition of natural waters.
9. What are the factors affecting Environmental Issues of Global Concern
10. Discuss the need for Environmental Awareness.
11. Briefly explain the Population Explosion
12. Briefly explain the Land degradation

13. What is meant by Environmental pollution: Explain
14. Briefly discuss the Environmental Acts in India
15. List out 5 aims of Govt. initiatives for Environmental Management
16. Explain the Environmental Management strategies
17. Discuss the present status of Environmental Education in India.
18. Explain the role of public in solving environmental problems
19. Define Sustainable Development with special reference to Environmental protection.
20. Describe briefly Environmental Segments with schematic diagram.
21. Briefly discuss the Atmosphere
22. Briefly discuss the Hydrosphere
23. Briefly discuss the Lithosphere
24. Briefly discuss the Biosphere
25. What are various types of employment potential for Environmental subject experts?
26. What is the composition of Atmosphere
27. Explain the three factor model for environmental degradation

28. Write a short note on consumption of natural resources.

29. What are the advantages of hydrogen energy in view of Environmental quality?

30. List out various physical parameters of EIA for construction of various major projects.

www.jntuworl.com

UNIT- II

NATURAL RESOURCES

1. Differentiate the recyclable, renewable and non-renewable resources
2. What is meant by natural resources and list out the problems associated with natural resources exploitation.
3. Differentiate between destruction and conservation of natural resources.

4. What is the Importance of forest resources in ecological balance
5. Describe the reasons of deforestation and its effect on Environment
6. Explain the Environmental effects of dams and mining on forest resources.
7. Explain the deforestation on Environment in Tribal India.
8. Describe the effect of over exploitation of forest resources on ecosystem
9. Define hydrological cycle. Explain
10. What are Environmental impacts of large dams?
11. Define water pollution and differentiate surface and ground water pollution sources
12. Explain the consequences of drought in Rayalaseema region of A.P.
13. What are the methods of water conservation?
14. What is meant by Exhaustibility of Mineral Resources
15. Explain the need of conservation of mineral resources
16. Describe the environmental effects of mineral exploration.
17. What are the types of agricultural systems for food production
18. What are the fertilizer-pesticide related problems of food resources

19. Explain the impact of water-logging condition on environment.
20. What is meant by salinity and over grazing
21. Write a note on the growing energy needs and its demand in India
22. Describe the non-conventional energy resources
23. Give a note on the wind and geothermal energy resources of India
24. How can we exploit the solar energy to the fullest utility
25. Give the advantages of biomass as a source of energy
26. What are the different types of Indian soils and explain the soil profile
27. Explain the factors responsible for land degradation
28. Briefly describe the soil conservation methods
29. What are the remedial measures to prevent pollution
30. What is soil erosion and explain the causes of soil erosion

UNIT- III

ECOSYSTEMS

1. Define ecosystem and what are different types of ecosystems
2. What are structural and functional ecosystems
3. Name the bio-geo-chemical cycles of nature and carbon cycle
4. Explain in the energy flow in a fresh water ecosystem
5. Define food chain, food web and ecological pyramids
6. Explain the pyramid of energy of grassland ecosystem
7. Explain Forest ecosystem

8. What are the biotic components of aquatic ecosystem explain
9. What are various components of desert ecosystem
10. Discuss the difference between natural and artificial ecosystem
11. Give a note on detritus food chain
12. What is meant by ecological succession
13. Explain Y – shaped energy flow model
14. Define energy and enumerate ecological energetics
15. Explain the steps involved in nitrogen cycle
16. Define producers, consumers and decomposers
17. Give a generalised model of a ecosystem
18. What is the importance of oxygen cycle in earth ecosystems
19. Explain briefly the sedimentary cycles of an ecosystem
20. What are the various tropic components of an estuarine ecosystem
21. Differentiate between autotrophic and heterotrophic components
22. Explain the movement of materials and energy in an ecosystem with the help of a generalised model
23. Give the importance of bio-geo chemical cycles in ecological balance

24. How is the universal model of energy flow useful in ecosystem
25. Explain with the help of a diagram-food web in a pond and grazing food chain
26. What are the bio tech components of stream ecosystem
27. Write a brief note on Marine Ecosystem
28. How is the deforestation affecting sustainability of forest ecosystem
29. How can we restore the aquatic ecosystems from the effect of water pollution
30. How is the expansion of cities affecting the forest ecosystem

www.jntuworld.com

UNIT- IV

BIODIVERSITY AND ITS CONSERVATION

1. Define Biodiversity, Genetic Diversity and Species Diversity
2. Give the Bio-Geographical Classification of India
3. What are wetlands and define ecosystem diversity
4. What is the Environmental importance of Biodiversity
5. Explain the value of biodiversity with special reference to India.
6. Define and explain the hotspots of biodiversity
7. Define poaching and what are the measures for wildlife conservation_from the threat of poaching
8. Differentiate between endangered and endemic species and name few endangered and endemic species of India
9. Explain insitu and exsitu conservation of biodiversity
10. Explain the different methods for conservation of biodiversity

11. Explain the reasons of loss of biodiversity in India
12. Describe India as a mega diversity nation
13. What are responsibilities of man in ecoplanning and conservation
14. Give the global biodiversity hotspots
15. How does the productive use show its impacts on biodiversity
16. What is the role played by forest in biodiversity in India
17. How does the Indian marine environment effect the biodiversity
18. What are the threats to Indian biodiversity
19. Describe the effect of management of germplasm and patenting help conservation of biodiversity
20. "Biological diversity is an index of nation wealth" explain?
21. Explain the need of public awareness in the conservation of biodiversity in India
22. What are the various programmes organized by the Government of India towards conservation of biodiversity
23. What is the role played by India as mega diversity nation.
24. What are the endangered and endemic species of Andhra Pradesh and name the conservation programmes in its concern

25. What is the role of environmental pollution in the deterioration of Indian biodiversity
26. How does the increasing population of India affect its biodiversity
27. How does the declining biodiversity of the nation affect its economy
28. Explain the impact of degradation of natural resources on threat to biodiversity
29. What are measures to conserve biodiversity to attain sustainability of the ecosystem?
30. Explain the climatic changes that are affecting the biodiversity due to environmental pollution globally.

www.jntuworld.com