



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
(AUTONOMOUS)**

Subject with Code : Environmental Science(20HS0801)

Year & Sem : III-B.Tech & II-Sem

Branch : B.Tech – CSE,CAD,CSM,CIC,CAI,CCC,CE,AGE.

Regulation : R20

QUESTION BANK

UNIT-I

**MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES
AND
NATURAL RESOURCES**

1. Explain the need of public awareness towards environment. [L2][10M]
2. Discuss Multidisciplinary Nature of Environmental studies. [L2][10M]
3. (a) Differentiate Renewable and non renewable resources with examples [L4][5M]
(b) What are the uses of forest? [L1][5M]
4. (a) What are the major causes of deforestation? [L1][5M]
(b) What are the effects of deforestation on Environment? [L1][5M]
5. (a) Discuss briefly droughts and floods. [L2][5M]
(b) Discuss the use and over exploitation of water resources. [L2][5M]
6. What are major causes for conflicts over water? Discuss one international and One inter - state water conflict. [L2][10M]
7. Discuss the major environmental impacts of mineral extraction. [L1][10M]
8. (a) What are the uses of minerals and it's Exploitation? [L1][5M]
(b) Write a brief note on Nuclear Energy. [L1][5M]
9. Summarise on solar energy, wind energy and Hydropower Energy resources. [L2][10M]
10. Explain what is Environment and how we survive with the uses of good environment. [L2][10M]

UNIT-II**ECOSYSTEM**

1. Define ecosystem and explain in detail about ecosystem. [L1][10M]
2. Describe the structure and functions of an Ecosystem. [L3][10M]
3. What are Ecological pyramids? Explain different types of ecological pyramids with neat Sketch. [L2][10M]
4. (a) Discuss the models of Energy flow in an Ecosystem. [L2][5M]
(b) What are biogeochemical cycles? Explain with the help of a diagram the nitrogen Cycle. [L2][5M]
5. Explain the following
(a) Food chains [L2][3M]
(b) Food web [L2][3M]
(c) Ecological pyramids [L2][4M]
6. Explain various processes involved in Ecological succession. [L2][10M]
7. What is the nature of grassland ecosystem? Explain its structure and function. [L1][10M]
8. Explain the structural components of desert and lake ecosystem. [L2][10M]
9. (a) Define food chain. Write its types. [L1][5M]
(b) Explain the structure and functional components of forest ecosystem. [L2][5M]
10. Explain the different types in aquatic ecosystem. [L2][10M]

UNIT-III

BIODIVERSITY AND ITS CONSERVATION

1. Discuss the values of bio diversity. [L2][10M]
2. Define Biodiversity. Explain Genetic diversity, Species diversity & Ecosystem diversity. [L2][10M]
3. Write a brief note on Indian diversity with special reference as a mega diversity nation. [L1][10M]
4. Explain Bio-geographical classification of India. [L2][10M]
5. Discuss the following
 - (a) Social value. [L2][2M]
 - (b) Ethical Value. [L2][2M]
 - (c) Aesthetic value. [L2][2M]
 - (d) Optional value. [L2][2M]
 - (e) Ecosystem service value. [L2][M]
6. (a) Define hotspot of bio diversity. [L1][2M]
 (b) Which are the hotspots found in India? Discuss their salient Features. [L1][8M]
7. What are the major threats to Biodiversity? [L1][10M]
8. Summarise the following
 - (a) Endangered species. [L2][5M]
 - (b) Endemic species. [L2][5M]
9. What is mean by In-situ and Ex-situ conservation of Biodiversity? Give examples. [L1][10M]
10. What is Red Book Data? What do you mean by Extinct, Endangered, Vulnerable and Rare Species? Name some Extinct Species of plant & animals of our country. [L1][10M]

UNIT-IV
ENVIRONMENTAL POLLUTION AND GLOBAL ENVIRONMENTAL ISSUES

1. Define Air pollution. Explain its causes, effects and control measures of Air pollution. [L1][10M]
2. Elaborate on
 - (a) Water pollution. [L2][5M]
 - (b) Land pollution. [L2][5M]
3. (a) What is an earth quake? Write its effects. [L1][5M]
(b) Write short notes Landslides. [L1][5M]
4. Discuss the natural formation and occurrence of ozone in the Stratosphere. [L2][10M]
5. Explain the following
 - (a) Acid rains. [L2][5M]
 - (b) Global warming [L2][5M]
6. Define noise pollution. Explain its causes, effects and control measures of noise Pollution. [L1][10M]
7. Write short notes on
 - (a) Droughts and floods [L1][6M]
 - (b) Cyclones [L1][4M]
8. How can you, as an individual, prevent environmental pollution? Why such an effort at Individual level is important? [L2][10M]
9. (a) What is solid waste management? Explain its causes and effects. [L1][6M]
(b) Write a short note on control measures of solid waste management. [L1][4M]
10. Write a note on Population growth? What are the factors influencing population size? [L1][10M]

UNIT-V

ENVIRONMENTAL LEGISLATION, LAWS, POLICES FOR SUSTAINABLE DEVOLPMENT

1. Discuss the salient features of forest conservation Act and Wild life (protection) Act. [L2][10M]
2. Describe Air (Prevention and control of pollution) Act and Environment (Protection) Act. [L3][10M]
3. What is the role of Information technology in Environment and human health? [L1][10M]
4. (a) What is the role of Information technology in Environment and human health? [L1][5M]
(b) Discuss the impact of increase of pollution on environment. [L2][5M]
5. Discuss briefly about sustainable development. [L2][10M]
6. Discuss the salient features of Water Act. [L2][10M]
7. Write a note on
(a) Kyoto protocol [L1][5M]
(b) Montreal protocol [L1][5M]
8. Explain about Municipal solid waste management. [L2][10M]
9. How can we create public environmental awareness? [L2][10M]
10. Describe your recent visit to any industrial site and explain the impact of pollutants emitted on Environment and discuss the various measures to control the pollution levels. [L3][10M]