



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

Siddharth Nagar, Narayanavanam Road PUTTUR – 517583

Subject with Code : Environmental Studies (16HS605) Course & Branch : B.Tech – CE

Year &Sem : II-B.Tech & II-Sem Regulation : R16

QUESTION BANK (DESCRIPTIVE)

UNIT-I

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

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| 1. Discuss Multidisciplinary Nature of Environmental studies. | 12M |
| 2. Differentiate Renewable and Nonrenewable resources with examples.. | 12M |
| 3. (a) Discuss the major environmental impacts of mineral extraction | 6M |
| (b) Classification of minerals with examples. | 6M |
| 4. Explain the need of public awareness towards environment | 12M |
| 5. What are major causes for conflicts over water? Discuss one international and one inter - state water conflict. | 12M |
| 6. Discuss the use and over exploitation of water resources and explain hydrological cycle. | 12M |
| 7. Write a note on effect of mining on forest and tribal people. | 12M |
| 8. (a) Discuss briefly droughts and floods | 6M |
| (b) Discuss the ecological uses of forests. | 6M |
| 9. (a) Brief note on Nuclear Energy | 6M |
| (b) What are the effects of deforestation on Environment? | 6M |
| 10. Give detail account on Solar energy , wind energy and Hydropower Energy resources. | 12M |

UNIT-II**ECOSYSTEM**

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| 1. b) Define ecosystem and explain in detail about ecological pyramids. | 6M |
| b) Explain the energy flow in an ecosystem. | 6M |
| 2. Describe the structure and functions of an Ecosystem. | 12M |
| 3. What are Ecological pyramids? Explain different types of ecological pyramids with neat sketch. | 12M |
| 4. What is the nature of grassland ecosystem? Explain its structure and function. | 12M |
| 5. a) Discuss the models of Energy flow in an Ecosystem. | 6M |
| b) What are biogeochemical cycles? Explain with the help of a diagram the nitrogen cycle. | 6M |
| 6. Explain | |
| a) Food chains | 3M |
| b) Food web | 3M |
| c) Ecological pyramids | 6M |
| 7. Explain various processes involved in Ecological succession. | 12M |
| 8. Explain the structural components of desert and lake ecosystem. | 12M |
| 9. a) Define food chain. Write it's types. | 6M |
| b) Explain the structure and functional components of forest ecosystem. | 6M |
| 10. Explain the different aquatic ecosystems | 12M |

UNIT-III

BIODIVERSITY AND ITS CONSERVATION

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| 1. Discuss the values of bio diversity. | 12M |
| 2. Explain | |
| a) Genetic diversity | 6M |
| b) Species diversity | 3M |
| c) Ecosystem diversity | 3M |
| 3. Give an account on Indian diversity with special reference as a mega diversity nation. | 12M |
| 4. Explain the bio-geographical classification of India. | 12M |
| 5. Give a brief account on | |
| a) Social value | 2M |
| b) Ethical value | 2M |
| c) Aesthetic value | 2M |
| d) Optional value | 2M |
| e) Social values | 2M |
| 6. a) Define hotspot of bio diversity? | 6M |
| b) Which are the hotspots found in India? Discuss their salient Features. | 6M |
| 7. What are the major threats to bio diversity? | 12M |
| 8. Give a brief account on | |
| a) Endangered species | 6M |
| b) Endemic species | 6M |
| 9. Explain | |
| a) In-situ Conservation | 6M |
| b) Ex-situ Conservation | 6M |
| 10. Explain | |
| a) Red data book | 3M |
| b) Loss of Habitat | 3M |
| c) Poaching. | 6M |

UNIT-IV**ENVIRONMENTAL POLLUTION AND GLOBAL ENVIRONMENTAL ISSUES**

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| 1. Define Air pollution. Explain its causes , effects and control measures of Air pollution | 12M | |
| 2. Write a note on | | |
| (a) Water Pollution | | 6M |
| (b) Land pollution | | 6M |
| 3. (a) What is an earth quake? Write it's effects. | | 6M |
| (b) Land slides | | 6M |
| 4. (a) Discuss the sources ,effects and control of ozone layer depletion | | 6M |
| (b) Nuclear Pollution | | 6M |
| 5. Write a note on | | |
| (a) Acid rains | | 6M |
| (b) Global Warming | | 6M |
| 6. Define noise pollution. Explain it's causes , effects and control measures of noise pollution | 12M | |
| 7. (a) Explain Droughts and floods and | | 6M |
| (b) Cyclone | | 6M |
| 8. (a) What is watershed management ? Discuss Practices of watershed management . | | 6M |
| (b) Write a short note on Role of individual in prevention of pollution. | | 6M |
| 9. (a) What is solid waste management ? Explain its causes and effects. | | 6M |
| (b) Write a short note on control measures of solid waste management . | | 6M |
| 10. Write a note on Population growth ? What are the factors influencing population size? | | 12M |

UNIT-VENVIRONMENTAL LEGISLATION, LAWS, POLICES FOR SUSTAINABLE DEVELOPMENT

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| 1 .Discuss the salient features of forest conservation Act and Wild life (protection) Act | 12M |
| 2. Describe Air (Prevention and control of pollution) Act and Environment(Protection) Act | 12M |
| 3 .What is the role of Information technology in Environment and human health. | 12M |
| 4. (a)What are the strategies taken for the development of child in healthy environment. | 6M |
| (b)Discuss the impact of increase of pollution on environment | 6M |
| 5 . Discuss briefly about sustainable development | 12M |
| 6. Discuss the salient features of Water Act | 12M |
| 7. Write a note on | |
| a) Kyoto protocol | 6M |
| b)Montreal protocol | 6M |
| 8. Explain about Municipal solid waste management | 12M |
| 9. How can we create public environmental awareness. | 12M |
| 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. | 12M |