



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

Siddharth Nagar, Narayanavanam Road PUTTUR – 517583

Subject with Code : Environmental Studies (16HS605) Course & Branch : B.Tech – CSE ,EEE & ECE

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

QUESTION BANK (DESCRIPTIVE)

UNIT-I

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

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

UNIT-II**ECOSYSTEM**

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

UNIT-III**BIODIVERSITY AND ITS CONSERVATION**

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

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

UNIT-VENVIRONMENTAL LEGISLATION, LAWS, POLICES FOR SUSTAINABLE DEVELOPMENT

1. Discuss the salient features of forest conservation Act and Wild life (protection) Act **10M**
2. Describe Air (Prevention and control of pollution) Act and Environment(Protection) Act **10M**
3. What is the role of Information technology in Environment and human health. **10M**
4. (A) What are the strategies taken for the development of child in healthy environment. **5M**
(B) Discuss the impact of increase of pollution on environment **5M**
5. Discuss briefly about sustainable development **10M**
6. Discuss the salient features of Water Act **10M**
7. Write a note on
 - A) Kyoto protocol **5M**
 - B) Montreal protocol **5M**
8. Explain about Municipal solid waste management **10M**
9. How can we create public environmental awareness. **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. **10M**