



SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : Environmental Studies (16HS605)

Course & Branch : B.Tech – ME&AGE

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

Regulation : R16

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. A) 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 | |

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| A)Food chains | 4M |
| B)Food web | 4M |
| C)Ecological pyramids | 4M |
| 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 | 4M |
| b)Species diversity | 4M |
| c) Ecosystem diversity | 4M |
| 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 value | 2M |
| f) Consumptive value | 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 | 4M |

- b) Loss of Habitat 4M
- c) Poaching. 4M

UNIT-IV

ENVIRONMENTAL POLLUTION AND GLOBAL ENVIRONMENTAL ISSUES

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

UNIT-V

ENVIRONMENTAL LEGISLATION, LAWS, POLICES FOR SUSTAINABLE DEVELOPMENT

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