



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

**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 it's 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**

1. Define Air pollution. Explain its causes, effects and control measures of noise pollution **10M**
2. Write a note on
  - (a) Water Pollution **5M**
  - (b) Land pollution **5 M**
3. (A) What is an earth quake? Write its 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 its causes, 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 its causes 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**













36. The African grasslands are called [     ]  
 A)Savanna                      B)Prairies                      c)pampas                      D)stepes
37. Man made ecosystem is called as [     ]  
 A)Human ecosystem                      B)Anthropogenic ecosystem                      C)A&B                      D)None of these
38. Consumers are also called as [     ]  
 A)Phagotrophs                      B)Chemotrophs  
 C)Auto trophs                      D)Photoautotrophs
39. Detrius food chain starts with [     ]  
 A)Producers                      B)consumers                      C)dead organic matter                      D)None of these
40. Which one is correct food chain [     ]  
 A)Phytoplankton → Zooplanktons → Fish B)Zooplankton →Phytoplankton → Fish  
 C)Grass → fish → Zooplankton                      D) Zooplanktons → Protozoans → Fish















**UNIT –V****ENVIRONMENTAL LEGISLATION ,LAWS POLICIES FOR SUSTAINABLE DEVOLOPMENT**

1. .... Act provides for setting up of National Parks and Wild life Sanctuaries [     ]  
 A) Environment protection Act     B) Wildlife (Protection)  
 C) Forest protection Act     D) Water prevention Act
2. ENVIS generates database on [     ]  
 A) Coastal ecology     B) Biodiversity  
 C) Occupational health     D) All of these
3. Expanding population trend is predicted for the coming years when age-pyramid is [     ]  
 A) Bell shaped     B) Pyramid shaped  
 C) Urn shaped     D) None of these
4. As per the forest act, the cultivation of which of the following is a non-forest activity [     ]  
 A) Tea     B) Rubber  
 C) Mulberry     D) None
5. Which state in India has the lowest birth rate [     ]  
 A) Kerala     B) Bihar  
 C) Madhya Pradesh     D) Himachal Pradesh
6. World population day [     ]  
 A) July 21     B) July 11  
 C) June 11     D) June 5
7. HIV can pass from infected person to others by [     ]  
 A) Contaminated Syringe     B) mosquito bite  
 C) Sweat     D) All
8. Now a day's how many children are born every second [     ]  
 A) 3-4     B) 4-5  
 C) 5-6     D) 6-7
9. Elisa test is used to detect [     ]  
 A) Malaria     B) AIDS  
 C) Cholera     D) Tuberculosis
10. The most severe problem faced by the world is [     ]  
 A) Nuclear proliferation     B) industrial pollution  
 C) Population explosion     D) AIDS
11. World animal welfare day [     ]  
 A) October 22     B) October 2  
 C) October 3     D) October 4
12. ICDS is a welfare scheme for [     ]  
 A) Public     B) Women  
 C) Men     D) Children
13. Which among the following is a poor country [     ]  
 A) Italy     B) Botswana  
 C) Canada     D) Newzeland
14. The zero population growth due to equal birth & death rate is called [     ]  
 A) Natural increase     B) Demographic transition  
 C) Fertility rate     D) Replacement level
15. Maximum number of individuals that can be supported by a given environment is called [     ]  
 A) Biotic potential     B) Carrying capacity  
 C) Population size     D) Environmental resistance
16. World animal welfare day [     ]  
 B) October 22     B) October 2  
 C) October 3     D) October 4

17. HIV can pass from infected persons to others by \ [ ]  
 A) Contaminated syringe B) Saliva  
 C) Sweat D) All of these
18. ELISA test is used to detect [ ]  
 A) Malaria B) AIDS  
 C) Tuberculosis D) Cholera
19. Today the world number one problem is [ ]  
 A) Pollution B) Population Explosion  
 C) Nuclear proliferation D) Natural Calamities
20. World day for water [ ]  
 A) March 23 B) March 22  
 C) March 11 D) March 17
21. The world AIDS day is recalled on [ ]  
 A) July 1<sup>st</sup> B) June 5<sup>th</sup>  
 C) Dec 1<sup>st</sup> D) Oct 2<sup>nd</sup>
22. The no. of babies produced per thousand individuals is called [ ]  
 A) Natality B) Mortality  
 C) Immigration D) Emigration
22. Rights of a child have become International Law in the year..... To ensure measures for the protection and well being of child [ ]  
 A) 1990 B) 1970  
 C) 1948 D) 1964
23. HIV infected persons show a decline in ..... cells there by reducing their immune system [ ]  
 A) B-cells B) T-cells  
 C) Both A&B D) None of these
24. GIS stands for..... [ ]  
 A) Geological Influence system B) Geographical information System  
 C) Geotechnical Influence System D) None of these
25. .... has been constituted by the Ministry of Environment and Forests for generating Database on various environmental aspects [ ]  
 A) ENVIS B) GIS  
 C) NMIS D) BNHS
26. . Which article in constitution recognizes environmental protection as one of the fundamental Duties of every citizen of India? [ ]  
 A) Article 42 B) Article 48A  
 C) Article 51A(g) D) Article 52
27. The 3-R approach of resource use stands for [ ]  
 A) Reuse, Reduce, Replace B) Reduce, Reuse, Recycle  
 C) Reduce, Replace, Recycle D) None
28. The concept of sustainable development was given by..... [ ]  
 A) Tansley B) Earnest Haeckel  
 C) G.H. Brundtland D) Kuldeep Singh
29. The number of organisms sustained by any system on long term basis is known as its [ ]  
 A) Sustainable development B) Green growth  
 C) Clean technology D) Carrying capacity
30. Study of trends in human's population growth and prediction of future growth is Called [ ]  
 A) Demographic transition B) Zero population growth  
 C) Both D) None

31. Full form of TFR [     ]  
A) Total First Report                      B) Timber For Rating  
C) Total Fertility Rate                      D) All
32. Field work is carried out for [     ]  
A) To get Awareness about environment    B) To gain knowledge  
C) To determine Pollution level              D) All the above
33. Southern Blotting test is used to analyse [     ]  
A) Malaria                                      B) AIDS  
C) Cholera                                      D) Tuberculosis
34. If a nation has 5 % annual growth rate, its population will be doubled in ---- years [     ]  
A) 45 Years                                      B) 14 Years  
C) 30 Years                                      D) 28 Years
35. What is the ratio of boys to girls in china [     ]  
A)1.4:1    B)2.4:3  
C)3.1:4    D) 3:4
36. MHRD, government of India formulated strategic plan for the welfare of children in the Areas of [     ]  
A)Health and Education                      B) Clean and Nutrition  
C) Safe drinking water & SanitationD) All the above
37. Full form of HIV [     ]  
A) Human Influenza Virus                      B) Homo Immuno Virus  
B) Human Induced Virus    D) Human Immuno Virus
38. The chemicals that causes cancer are known as [     ]  
A) Tetratogenic                                      B) Mutagenic  
C) Neurotoxin's                                      D) Carcinogenic
39. If a nation has an annual growth rate of 2%, its population will be doubled in ---- years [     ]  
A) 20 Years                                      B) 35Years  
C) 50Years                                      D) 70 Years
- 40 WWW stands for \_\_\_\_ [     ]  
A)World Web Wide                              B)World wide web  
c)Wide web world                              D)Wide World Web