

Register Number: .....

**B.E/B.TECH DEGREE EXAMINATIONS: APRIL/MAY 2012**

Fifth Semester

**ELECTRONICS AND INSTRUMENTATION ENGINEERING**

CHY107: Environmental Science and Engineering

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The largest dam in terms of capacity is  
A. Kuttiyadi                      B. Bhakra dam                      C. Sabarigiri                      D. Krishna Raja Sagar
2. Which gas is likely to be reduced in the atmosphere by deforestation?  
A. Carbon dioxide                      B. Nitrogen                      C. Oxygen                      D. CH<sub>4</sub>
3. The Alpine zone is above \_\_\_\_\_ ft from sea level  
A. 1200                      B. 12000                      C. 23000                      D. 16000
4. When numbers of food chains are interlocked this is called  
A. Food link                      B. Food group                      C. Food web                      D. Pyramid
5. Which chemical was responsible for Bhopal gas tragedy?  
A. Methyl Iso Cyanide                      B. Benzene Hexa Chloride                      C. Tri Nitro Toluene                      D. CFC
6. The permissible limit of fluoride in drinking water is  
A. 5 ppm                      B. 4 ppm                      C. 3 ppm                      D. 10 ppm
7. Environmental Protection Act was introduced in the year  
A. 1986                      B. 1988                      C. 1972                      D. 1989
8. Project Tiger was launched by Govt. of India in the year  
A. 1972                      B. 1978                      C. 1973                      D. 1983
9. The study of population change is known as  
A. Population dynamics                      B. Population index                      C. Population growth                      D. Doubling time
10. GIS is  
A. Geographical Information System                      B. Geographical Information Source  
C. Geological Information System                      D. Genetically Information System

**PART B (10 x 2 = 20 Marks)**

11. Enumerate the desired qualities of an ideal pesticide.
12. Give any two adverse effects caused by overgrazing
13. Define Estuaries.

14. Write note on endemic species.
15. What are landslides?
16. What are the sources of marine pollution?
17. Define sustainable development.
18. How Ozone is formed?
19. What are Birth rate and Death rate?
20. What is AIDS? How to prevent it?

**PART C (5 x 14 = 70 Marks)**

21. a) (i) Explain the effects of Deforestation (7)  
(ii) Explain the adverse environmental impacts of modern agriculture. (7)  
**(OR)**  
b) Explain Renewable & non-Renewable energy resources with examples.
22. a) (i) Define Ecological pyramids and explain different types of ecological pyramids. (7)  
(ii) Explain In-Situ & Ex-Situ Conservation of Biodiversity (7)  
**(OR)**  
b) (i) Describe the types, characteristics features, structure& functions of Grass land ecosystem and Lake ecosystem
23. a) (i) Explain the causes, effects and control measures of air pollution  
**(OR)**  
b) (i) Discuss in detail about the solid waste management.
24. a) (i) Explain Ozone layer depletion and Global warming  
**(OR)**  
b) (i) Write in detail about Wildlife Protective Act and Water Act.
25. a) (i) Discuss on women and child welfare (7)  
(ii) Population explosion affects the environment seriously – discuss. (7)  
**(OR)**  
b) (i) Explain the role of Information Technology on environment and human health.

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