

**II B.Tech II Semester Regular Examinations, Apr/May 2008**

**ENVIRONMENTAL STUDIES**

( Common to Civil Engineering, Electrical & Electronic Engineering,  
Mechanical Engineering, Computer Science & Engineering, Chemical  
Engineering, Electronics & Instrumentation Engineering, Bio-Medical  
Engineering, Information Technology, Electronics & Control Engineering,  
Mechatronics, Computer Science & Systems Engineering, Metallurgy &  
Material Technology, Production Engineering, Bio-Technology and  
Automobile Engineering)

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Write a note on the importance of education on environmental issues and concerns.  
(b) Describe the multidisciplinary nature of environmental studies. [8+8]
2. Explain the resources from following sources on which man depends and explain briefly.  
(a) Atmosphere  
(b) Hydrosphere  
(c) Lithosphere [6+5+5]
3. (a) What is a grassland ecosystem and what are the activities in grasslands ?  
(b) What activities of man lead to the destruction of grasslands and what are the consequences of this? [8+8]
4. Discuss any two:  
(a) Productive value of Nature.  
(b) Aesthetic value of Nature  
(c) Optional value of Nature [16]
5. (a) Oceans are ultimate sink for most of the waste we produce. Explain.  
(b) List off shore sources of Marine Pollution.  
(c) Explain the effects of oil pollution on the ocean. [8+4+4]
6. (a) Define watershed management and explain its objectives.  
(b) Discuss various water conservation techniques that can be practiced by individuals. [8+8]
7. (a) Though population growth shows a global decline, there is still cause for worry. Explain why.

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- (b) What are the reasons for differences in the rate of population growth in various countries. [8+8]
8. (a) Explain the aspects to be studied and the procedure for collecting information when you want to document the environmental features and resource assets of a water resource ecosystem during a field visit.
- (b) Describe, in the format given above, the features of any such ecosystem you have studied during field visit. [8+8]

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1. (a) Define “Environmental Studies”?  
(b) Explain the components and scope of Environmental studies. [4+12]
2. (a) Explain the problems created by construction of large dams for irrigation and power generation .  
(b) State briefly the components of comprehensive water management strategy . [8+8]
3. (a) Define ecosystem and list components of an ecosystem.  
(b) Briefly explain the manner in which ecosystems are destroyed by human activities. [10+6]
4. (a) Write a brief note on biodiversity and ecosystem diversity.  
(b) Explain the evolution of diverse species in an ecosystem. [16]
5. (a) List the wastes that are prohibited from processing along with municipal solid waste. Discuss.  
(b) Briefly describe the methods of heating and disposal of solid waste. [8+8]
6. (a) What are the major issues associated with resettlement and rehabilitation?  
(b) Bring out the main elements of water conservation. [8+8]
7. Explain the push and pull factors which lead to migration from rural areas to urban centers. [16]
8. What are the problems encountered in the disposal of solid waste from various sources. Describe the outcome of poor management of solid waste, illustrating your answer with any case-study. [16]

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1. Write a detailed note on the various institutions and organizations in the field of ?preservation of wildlife and knowledge of natural history. [16]
2. (a) Discuss in detail the water cycle.  
(b) Write about sustainable water management. [8+8]
3. (a) Define ecosystem and list components of an ecosystem.  
(b) Briefly explain the manner in which ecosystems are destroyed by human activities. [10+6]
4. Discuss the aesthetic value of nature with respect to the following statements.  
(a) A true wilderness experience is an incredible learning experience.  
(b) The beauty of nature encompasses every aspect of the living and non-living part of our earth. [8+8]
5. (a) Oceans are ultimate sink for most of the waste we produce. Explain.  
(b) List off shore sources of Marine Pollution.  
(c) Explain the effects of oil pollution on the ocean. [8+4+4]
6. (a) Define watershed management and explain its objectives.  
(b) Discuss various water conservation techniques that can be practiced by individuals. [8+8]
7. Write briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization. [16]
8. Explain the reasons for pollution of different types (water, air ,noise) that you have encountered in any region. Describe the problems created and suggest some remedial measures for the same. [8+8]

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1. (a) Write a note on the importance of education on environmental issues and concerns.  
(b) Describe the multidisciplinary nature of environmental studies. [8+8]
2. (a) What do you understand by biotic and a biotic parts of nature?  
(b) Explain the interaction and interdependency of these. [6+10]
3. (a) Explain the concept of food chain, food web and ecological pyramid.  
(b) Explain the water cycle and what are the problems that arise with disturbances to the water cycle? [10+6]
4. Discuss the aesthetic value of nature with respect to the following statements.  
(a) A true wilderness experience is an incredible learning experience.  
(b) The beauty of nature encompasses every aspect of the living and non-living part of our earth. [8+8]
5. (a) Oceans are ultimate sink for most of the waste we produce. Explain.  
(b) List off shore sources of Marine Pollution.  
(c) Explain the effects of oil pollution on the ocean. [8+4+4]
6. (a) What are the major causes of nuclear hazards and accidents.  
(b) Discuss the ways to minimize radiation exposure in case of a nuclear accident. [8+8]
7. (a) Tuberculosis is one the environmentally related contagious diseases. Write briefly about the effects of this disease.  
(b) What is the extent of spread of this disease in various parts of the globe? [6+10]
8. (a) Explain the step by step procedure to record and document the environmental features and resource assets of an ecosystem during a field visit.

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**Set No. 4**

- (b) Describe, in the format given above, the features of any type of any ecosystem you have studied during field visit. [8+8]

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