

II B.Tech I Semester Supplementary Examinations, February 2008
ENVIRONMENTAL STUDIES
(Common to Electronics & Communication Engineering, Electronics & Telematics, Electronics & Computer Engineering and Aeronautical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the different areas of environmental conservation to which people belonging to different disciplines can contribute. [16]
2. Explain the need for an overall strategy for management of water resources. [16]
3. Write briefly about the following types of ecosystems. Bring out the unique characteristics, threats and also the action needed to overcome threats:
 - (a) Marine ecosystem
 - (b) Desert ecosystem
 - (c) Grasslands. [16]
4. (a) What is India's position in the world with respect to biodiversity? What condition led to this?
(b) List the various plants and animals found in India which contribute to this status. [8+8]
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) Define watershed management and explain its objectives.
(b) Discuss various water conservation techniques that can be practiced by individuals. [8+8]
7. (a) Define Health Impact Assessment.
(b) Outline some of the important strategies which must be taken up to minimize environmental hazards. [4+12]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied. [16]

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1. Write a detailed note on the various institutions and organizations in the field of Environment Education and training, their activities and focal areas. [16]
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) Write about the different types of forests in India and describe the main types of trees in them.
(b) What are the activities which disturb the forest ecosystem and what is the outcome of forest degradation? [10+6]
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. Discuss briefly the provision of the following Acts:
(a) The Water (Prevention Control of Pollution) Act ,1974
(b) The Air (Prevention and Control of Pollution) Act, 1981
(c) The Wildlife Protection Act 1971
(d) The Forest Conservation Act of 1980 [4+4+4+4]
7. (a) Though population growth shows a global decline, there is still cause for worry. Explain why.
(b) What are the reasons for differences in the rate of population growth in various countries. [8+8]
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. What are the different activities that can be taken up to increase public awareness of environmental issues? Explain how they help in better environmental management. [16]
2. Discuss natural resources and associated problems by focusing your attention on :
 - (a) The unequal consumption of natural resources.
 - (b) Planning land use.
 - (c) The need for sustainable life styles. [5+5+6]
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. What are the different values of nature for mankind? Explain each of them briefly. [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) 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) Though population growth shows a global decline, there is still cause for worry. Explain why.
 - (b) What are the reasons for differences in the rate of population growth in various countries. [8+8]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied. [16]

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1. Write a detailed note on the role of various organizations in the field of the environment and their contribution to better management of resources. [16]
2. Discuss the scope of environmental studies with respect to the following statements.
 - (a) Our dependence on nature is so great that we cannot continue to live without protecting the earth's environmental resources.
 - (b) Industrial development and intensive agriculture uses up large amounts of natural resources. [8+8]
3.
 - (a) Explain the significance of preserving balance in various kinds of ecosystems. Illustrate with examples.
 - (b) Describe the structure and functions of an ecosystem. [8+8]
4.
 - (a) Explain the concept of in-situ conservation of biodiversity. Illustrate your answer with examples.
 - (b) What is an Integrated Protected Area System? How do these contribute to preservation of biodiversity? [10+6]
5.
 - (a) Define air pollution and classify major sources of air pollution.
 - (b) List the major physiological effects of air pollution on plants and human beings. [8+8]
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.
 - (b) What are the reasons for differences in the rate of population growth in various countries. [8+8]
8.
 - (a) Describe how you would methodically record the elements and resources in an ecosystem and assess its functioning.
 - (b) Write about your observations and main conclusions about any ecosystem which you have studied (e.g: forest, sea shore, farmlands, hilly area etc.) [8+8]
