

II B.Tech I Semester Regular Examinations, November 2007
ENVIRONMENTAL STUDIES
(Common to 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. (a) Explain show agricultural practices implemented to increase the field from the land lead to formation of unproductive land.
(b) Explain the difference in consumption of resources by the countries of the developing and developed world. [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) List the main biogeographic zones in the country.
(b) Explain the necessity for viewing biodiversity as a global resource. Describe with examples the steps that are being taken towards this purpose. [6+10]

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) Describe the problems created by the growing population of the earth.
(b) Explain briefly the pattern of global population growth in recent years which is causing alarm to environmental experts. [8+8]

8. (a) What is the methodology to be followed for study of a studying cause and effects of a polluted site? Write also the observations for various aspects and data to be collected.
(b) Write about any polluted site you have visited and describe your findings in detail. [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. (a) What do you understand by biotic and a biotic parts of nature?
(b) Explain the interaction and interdependency of these. [6+10]
3. How do different development activities, including construction of dams, affect the various aquatic ecosystems and what actions need to be taken to conserve them? [8+8]
4. (a) What are the major hotspots of biodiversity in our country?
(b) Why is it important to preserve these areas and how do they contribute to the environment in different ways? [6+10]
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 issues associated with resettlement and rehabilitation?
(b) Bring out the main elements of water conservation. [8+8]
7. (a) Write a note on the Family Welfare programme in India.
(b) What measures can be implemented to limit the growth of the population by government and the community? [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 various institutions and organizations in the field of ?preservation of wildlife and knowledge of natural history. [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) Briefly write about the different kinds of grasslands in India, also stating the main activities in such areas.
(b) What steps can be taken to conserve grasslands and what are the common reasons for destruction of these ecosystem? [8+8]
4. Which type of conservation is better? In-situ or ex-situ? Elaborate and explain your answer in detail. [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) 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]

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2. (a) Explain show agricultural practices implemented to increase the field from the land lead to formation of unproductive land.
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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. List the major pollutants in the automobile exhaust and discuss the ways and means to control the same. [16]
6. (a) Define watershed management and explain its objectives.
(b) Discuss various water conservation techniques that can be practiced by individuals. [8+8]
7. Explain with examples the links between the activities of man which are hazardous to human health and environment. [16]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied. [16]
