

Code No: R10106/R10

R07

I B.Tech I Semester Regular/Supplementary Examinations, Jan 2012
ENVIRONMENTAL STUDIES

(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Bio-Medical Engineering, Information Technology, Electronics & Control Engineering, Production Technology and Mining)

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
 All Questions carry equal marks

1. (a) Write a note on the importance of education on environmental issues and concerns.
 (b) Describe the multidisciplinary nature of environmental studies. [7+8]
2. Discuss the importance of environmental studies with respect to the following statements.
 (a) We live in a world wherein natural resources are limited.
 (b) Green spaces and gardens are vital to the psychological and physical health of city dwellers. [7+8]
3. (a) What are the different trophic levels of organisms in an ecosystem ?
 (b) Why is a complex ecosystem more stable than one with few species? [9+6]
4. (a) Write a brief note on biodiversity and ecosystem diversity.
 (b) Explain the evolution of diverse species in an ecosystem. [15]
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. [7+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+3]
7. Explain the relation between population and economic growth from the point of view of sustainable development. [15]
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.

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- (b) Write about any polluted site you have visited and describe your findings in detail. [8+7]

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Set No. 2

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Max Marks: 75

**Answer any FIVE Questions
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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. [15]
2. (a) Write a detailed note on the problems arising out of overexploitation of forest resources.
(b) Describe how forest management is being done in India by citing any example. [6+9]
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? [7+8]
4. (a) What do you understand by endemic and endangered species ? How are they categorized? Give some examples of such species in India.
(b) List some common plant and animal species of India. [9+6]
5. (a) Enumerate the diseases and other problems caused by soil pollution.
(b) How do you control soil pollution? [8+7]
6. (a) Explain the phenomenon of Global Warming and the factors contributing to it.
(b) Explain the possible impacts of Global Warming on the food supply.
(c) What are the measures taken at Global level to control the emission of Green House Gases? [5+5+5]
7. (a) Define Health Impact Assessment.
(b) Outline some of the important strategies which must be taken up to minimize environmental hazards . [4+11]
8. (a) Describe how you would methodically record the elements and resources in an ecosystem and assess its functioning.
(b) Based on your field visits, summarize your observations and findings of the water resource ecosystem in your region. [8+7]

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Set No. 3

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Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
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1. Explain how the ideas and activities of some internationally known environmental thinkers has influenced environment policy. [15]
2. (a) Why is it important to conserve forest ecosystems?
(b) What are the ways in which forest resources are misused and what is the outcome? [8+7]
3. (a) Explain the term 'energy cycle' and how the organisms in the ecosystem are dependent on it.
(b) What is ecological succession? What are the different stages of development of an ecosystem? [8+7]
4. (a) Explain the concept of ex-situ conservation and illustrate your answer with examples.
(b) What is an Integrated Protected Areas and how does it help in conservation of biological diversity. [9+6]
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+7]
6. (a) What are the major issues associated with resettlement and rehabilitation?
(b) Bring out the main elements of water conservation. [8+7]
7. Explain with examples the links between the activities of man which are hazardous to human health and environment. [15]
8. List and write briefly the main characteristics of any five plant and five animal species which belong to your region or any area which you have studied. [8+7]

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Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
 All Questions carry equal marks

1. Mention briefly the contributions made by the following:
 - (a) BNHS
 - (b) Indira Gandhi
 - (c) Botanical Survey of India
 - (d) Madhav Gadgil

[4+4+4+3]
2. (a) Why is it important to conserve forest ecosystems?
 (b) What are the ways in which forest resources are misused and what is the outcome?

[8+7]
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+7]
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?

[9+6]
5. (a) What is significance of the term inversion in the dissipation of pollutants in the atmosphere ?
 (b) List the meteorological parameters influencing the disposal of air pollutants in the atmosphere.

[15]
6. (a) What are the ways in which individuals can help us in environmental management.
 (b) Describe Narmada Bachao Andolan.

[7+8]
7. (a) Explain the importance of value education in the context of the environment.
 (b) Write a note on environmental values.

[7+8]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied.

[15]
