

Subject Code: R10207/R10

Set No - 1

I B.Tech II Semester Regular Examinations Oct./Nov. - 2013

ENVIRONMENTAL STUDIES

(Common to CSE, EEE, CE, EIE, AE, BT & AME Branches)

Time: 3 hours

Max. Marks: 75

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

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- 1.(a) Describe the scope and importance of Environmental Studies.
(b) What are the various reasons for overexploitation of forest resources? Explain the strategies for conservation of forest resources. [8+7]
- 2.(a) What are renewable and non-renewable resources? Explain with examples.
(b) What do you mean by equitable use of resources in a Global contest? [8+7]
- 3.(a) What is the main structure and function of grassland ecosystems?
(b) What are various components of ecosystems? What role do they play in ecosystem processes? [8+7]
- 4.(a) Give an account of consumptive use of biodiversity.
(b) What are the conflicts between man and wildlife? How to minimize them? [8+7]
- 5.(a) What are the various sources and effects of noise pollution?
(b) How can man be held responsible for natural calamities such as floods etc.? Discuss with reference to recent incident at Kedarnath. [8+7]
- 6.(a) What is rain water harvesting? What are the main objectives for rain water harvesting?
(b) What are the salient features of Forest Conservation Act? [8+7]
- 7.(a) What are the causes for high population growth in India?
(b) With the help of case studies, explain the role of information technology in environment and human health? [8+7]
8. Write short notes on the following
(i) Human rights
(ii) Climate change
(iii) Fertilizer-pesticide problem
(iv) Marine Pollution [4+4+4+3]

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Set No - 2

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Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
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- 1.(a) Explain the need of awareness about environmental problems.
(b) What are the various reasons for deforestation? Also discuss the remedial actions? [8+7]
- 2.(a) What are the environmental effects of mineral extraction?
(b) Explain the various causes for land degradation. How it can be arrested? [8+7]
- 3.(a) Describe food chain and food web with suitable examples.
(b) Explain the structure of Stream ecosystem. [8+7]
- 4.(a) What is the contribution of India for global biodiversity?
(b) What are the conflicts between man and wildlife? How to minimize them? [8+7]
- 5.(a) Discuss the causes and effects of thermal pollution,
(b) What are the mitigation measures to be taken at the time of Cyclones? [8+7]
- 6.(a) What are the issues and problems related to resettlement and rehabilitation of people during construction of an Irrigation Project?
(b) What are the salient features of Wildlife Protection Act? [8+7]
- 7.(a) Explain the role of Family Welfare Programs in the control of population explosion?
(b) What are the causes for rapid spread of HIV in India? Suggest the precautions to be taken to prevent spread of AIDS. [8+7]
8. Write short notes on the following
(i) Conflicts over water
(ii) Wasteland reclamation
(iii) Disaster mitigation
(iv) Value education [4+4+4+3]

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Set No - 3

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Time: 3 hours

Max. Marks: 75

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

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- 1.(a) Explain the multidisciplinary nature of environmental studies.
(b) What are the various reasons for overexploitation of forests? Also discuss the remedial actions? [8+7]
- 2.(a) What are the various reasons for tropical deforestation? Suggest the measures for controlling deforestation?
(b) Explain the effects of dams on tribal people with special reference to Indira Sagar Project. [8+7]
- 3.(a) What is the main structure and function of desert ecosystems?
(b) What do you mean by ecological succession? Describe the stages of succession. [8+7]
- 4.(a) What are the various endangered and endemic species of India?
(b) What are some of the factors responsible for India's rich biological diversity? [8+7]
- 5.(a) What are the various causes and effects of marine pollution?
(b) What is radioactive pollution? Discuss the sources of radioactive pollution. [8+7]
- 6.(a) What is global warming? What are the effects of global warming?
(b) What are the salient features of Environment Act 1986? [8+7]
- 7.(a) What is the role of population growth in environmental degradation?
(b) What is the role of information technology in environmental protection? [8+7]
8. Write short notes on the following
(i) Child Welfare
(ii) Rain water harvesting
(iii) Disaster management
(iv) Pesticides problem [4+4+4+3]

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Set No - 4

I B.Tech II Semester Regular Examinations Oct./Nov. - 2013

ENVIRONMENTAL STUDIES

(Common to CSE, EEE, CE, EIE, AE, BT & AME Branches)

Time: 3 hours

Max. Marks: 75

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

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- 1.(a) Explain the interrelated nature of environmental problems.
(b) What are the reasons for depletion of natural resources? Explain strategies for conservation of natural resources. [8+7]
- 2.(a) What are the changes caused due to agriculture and overgrazing?
(b) What are the various causes of soil erosion?
(c) Supply of subsidized cooking gas to rural and tribal areas reduces deforestation, Comment [6+5+4]
- 3.(a) What are the various models of energy flow in an ecosystem? Explain them in brief.
(b) What do you understand by nutrient cycling? What is the significance of decomposers in nature? [8+7]
- 4.(a) What are the various threats for biodiversity in India?
(b) State the difference between national park and Sanctuary. What do you understand by buffer zone and core zone? [8+7]
- 5.(a) What are the measures to be taken prevent loss of lives from floods?
(b) What is Indoor air pollution? What are the various causes of indoor air pollution? [8+7]
- 6.(a) What are the various substances responsible for ozone depletion in stratosphere? What are the strategies to be adopted to control ozone depletion?
(b) Discuss critically the objectives and practices of watershed management. [8+7]
- 7.(a) What are the various reasons for the continued high rate of population growth in India?
(b) Establish the relation between health and environment with suitable examples. [8+7]
8. Write short notes on the following
(i) HIV/AIDS
(ii) Urban solid wastes
(iii) Environmental ethics
(iv) Interstate water disputes [4+4+4+3]