

Code No: R10106/R10

Set No. 1

I B.Tech I Semester Regular Examinations, February 2013
ENVIRONMENTAL STUDIES
(Common to Mechanical Engineering, Electronics & Communication
Engineering, Chemical Engineering, Information Technology, Electronics &
Computer Engineering, Mining and Petroleum Technology)
Time: 3 hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

1. Describe how different landscapes of the natural environment are degrading by the advancement of science and technology with a case study? [15]
2. Explain what is organic farming, subsistence agriculture, intensive agriculture and mixed cropping? What are the impacts of traditional agriculture on crop production? [15]
3. (a) Compare and contrast natural ecosystem and artificial ecosystem
(b) What are tropical rain forests? Why are tropical rain forests important to us? [8+7]
4. (a) Explain how the poaching of wild life as a threat to the biodiversity?
(b) Explain about aesthetic value of biodiversity. [8+7]
5. (a) How is liquid waste managed?
(b) How municipal waste is handled in Indian cities and towns? [8+7]
6. (a) What are the objectives of Environmental Impact Assessment(EIA)?
(b) write short notes on
(i) Polluter pays principle(PPP)?
(ii) Carbon Trading [8+7]
7. Write short notes on the following with examples
(a) Birth rate
(b) Death rate
(c) Poverty
(d) Migration [4+4+4+3]
8. (a) Explain how Industrialization and Urbanization leads to the pollution do.
(b) Explain your general observations when you visit near by solid waste management site. [8+7]

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Set No. 2**I B.Tech I Semester Regular Examinations, February 2013****ENVIRONMENTAL STUDIES****(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroleum Technology)****Time: 3 hours****Max Marks: 75****Answer any FIVE Questions
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1. (a) Discuss what is the scope if a student chooses any core Environmental papers as specialization in their degree?
(b) How do you describe the lavish utilization of different harmful products like plastics, polythene bags, mosquito repellants etc., with a case study? [8+7]
2. (a) What are the various sources of food? Explain the terms Hunger hotspots, Malnutrition, Under-nutrition and what are the constituents of a balanced diet?
(b) Describe in detail the food related problems occur in developing and under-developed nations though the WHO & FAO are taking initiatives and suggest remedies to overcome the problem. [8+7]
3. (a) Explain how fat-soluble pollutants like DDT get magnified?
(b) Compare and contrast natural ecosystem with agro ecosystem. [7+8]
4. (a) Enumerate five important biosphere reserves, national parks and wild life Sanctuaries of India. Also mention the state where there are located.
(b) Explain about ethical value of biodiversity. [10+5]
5. (a) Write a note on Eutrophication?
(b) What is biological contamination of water? [8+7]
6. (a) What is a watershed? How can watershed management solve the problem of depletion of the ground water table?
(b) Describe the effects of waste product and over-exploitation of natural resources as a result of consumerism culture? [8+7]
7. Write briefly about the following
(a) Sarva siksha Abhiyan
(b) Balika samvridhi yojana
(c) Integrated child development services [5+5+5]
8. (a) How does the class room study varied from the field study explain out of your experiences?
(b) Field study is the most effective teaching method explain how and gives your suggestions. [8+7]

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1. (a) Explain why public awareness is needed with regard to Environmental issues along with any case study?
(b) Briefly discuss what is the protocol to be followed to aware the public about environmental issues? [8+7]
2. What is the resident time of water in terms of vapors in the atmosphere and what are the methods of conserving water resources? Explain how will you reduce evaporational losses of water at different areas? [15]
3. (a) Describe the desert and semi-arid ecosystems and where are they found in India
(b) Why is a complex ecosystem is more stable than one with few species? [8+7]
4. (a) Enumerate five important biosphere reserves, national parks and wild life Sanctuaries of India. Also mention the state where there are located.
(b) Explain about ethical value of biodiversity. [10+5]
5. (a) List the major physiological effect of air pollution on plants and human beings?
(b) Give the composition of Fly ash obtained from coal-fired power plants and explain how is utilized these days? [8+7]
6. (a) "Population, consumerism & waste production are inter related" – comment?
(b) Discuss the salient features of
(i) Air Pollution (Prevention & Control) Act , 1981
(ii) Water Pollution (Prevention & Control) Act , 1974 [8+7]
7. (a) Write a note on human rights and the environment
(b) Discuss the process of HIV infection and its mode of transmission? [7+8]
8. (a) How does the class room study varied from the field study explain out of your experiences?
(b) Field study is the most effective teaching method explain how and give your suggestions. [8+7]

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Answer any FIVE Questions
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1. (a) Describe the various conservation practices followed in the society and by individuals for preservation of environmental assets?
(b) Explain about "Urjagram and Model villages". [8+7]
2. (a) What are 'intangible resources'? How does deforestation causes deterioration of the quality of life in a tribal society with a case study.
(b) Name and explain various sources of water? "Fresh water is the biggest crisis facing the world today". Comment. [8+7]
3. (a) Differentiate between terrestrial ecosystem and aquatic ecosystem with reference to their structure and functions
(b) Discuss the ecological adaptation by natural selection. [8+7]
4. (a) Write a few birds and their contribution to the environment?
(b) What are the ecological services rendered by forests? Cite the examples of aesthetic, recreational, economic, historical, cultural and religious values of forest around your place. [5+10]
5. (a) "Dilution of pollution is the only solution" Explain?
(b) What is role of mangroves play in the event of a cyclone? [8+7]
6. (a) What are the objectives of Environmental Impact Assessment(EIA)?
(b) write short notes on
(i)Polluter pays principle(PPP). (ii)Carbon Trading [8+7]
7. (a) What do you mean by "Slum"? What kind of shelter does it provide?
(b) What are the objectives of UDHR by the United Nations? [8+7]
8. (a) Give a brief account of survey of river that you have studied.
(b) What are the types of forests you can observe in the terrestrial Ecosystem [8+7]
