

Code No: R10207/R10

**Set No. 1**

**I B.Tech II Semester Supplementary Examinations, Feb/Mar 2014  
ENVIRONMENTAL STUDIES  
( Common to Civil Engineering, Electrical & Electronics Engineering,  
Computer Science & Engineering, Electronics & Instrumentation  
Engineering, Aeronautical Engineering, Bio-Technology and Automobile  
Engineering)**

**Time: 3 hours**

**Max Marks: 75**

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

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1. Write a detailed note on the various governmental institutions and organizations in the field of public awareness and Preservation of natural assets? [15]
2. Explain fossil fuel, write a detailed note on the merits and demerits of any three non-renewable energy sources and their impacts on environment and man? [15]
3. Write a note on:
  - (a) Mangroves
  - (b) Biomass
  - (c) Artificial ecosystem.
  - (d) Ecological pyramids [4+4+4+4]
4. (a) What is the objective of identifying biodiversity hot spots  
(b) Explain the efforts taken towards conservation of biodiversity in India. [6+9]
5. (a) Define Air Pollution, write down the sources and effects of air pollution  
(b) Explain classification of pollutants? Write about control measures of air pollution. [8+7]
6. (a) Define sustainability? What are major concepts for sustainable development?  
(b) Explain how consumerism has affected the present society? [8+7]
7. (a) What do you mean by the term population explosion?  
(b) what is the most disturbing factors about population growth in the world? [8+7]
8. (a) Explain how the forest cover reduces the earth quakes on the land.  
(b) Explain the effect of dumping sites in the polluting industry. [8+7]

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**Time: 3 hours**

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1. (a) Bring out the benefits and negative impacts of Ecotourism.  
 (b) Critically discuss recent report framed by the central government with regard to the displacement of people or acquiring of land for the cause of any developmental activity? [8+7]
2. Justify the need for forest management. List the strategies adopted for conserving the forest wealth in India. [15]
3. (a) What is the importance of forests in ecological balance  
 (b) All matter of production in ecosystem is subject matter of productivity in ecosystem? Discuss. [8+7]
4. (a) What are the biodiversity hotspots in the world  
 (b) Explain about indirect values of biodiversity. [8+7]
5. (a) How soil pollution can be controlled?  
 (b) Write short note on explaining how mining activities accelerate soil degradation? [7+8]
6. (a) Write short notes on sources, effects and control measures of  
 (i) Acid rains (ii) Ozone layer depletion?  
 (b) Give a detailed account of methods used in water conservation? [8+7]
7. Write briefly about the following  
 (a) Sarwa siksha Abhiyan  
 (b) Balika samvridhi yojana  
 (c) Integrated child development services [5+5+5]
8. (a) Explain the types of components that are present in the solid waste material.  
 (b) What are the types of observations you find when you visited the polluted and non polluted zone. [8+7]

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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) Discuss the requirement of a non-polluted environment. "Developmental activities have caused positive as well as negative impacts on environment and human health". Comment.  
 (b) Name the major and significant minor constituents of the atmosphere with their importance and approximate percentage by volume. [8+7]
2. Describe the Hydrological cycle with a diagrammatic representation? Explain the present state of water resources and write a detailed note on over-utilization of surface and ground water. [15]
3. Explain why the following are important:  
 (a) Coral reefs (b) Mangroves (c) Coastal wetlands and estuaries [5+5+5]
4. (a) Explain about In-situ conservation of biodiversity.  
 (b) What is the medicinal value of biodiversity? [8+7]
5. (a) Discuss the role played by the Government in controlling water pollution  
 (b) Write short notes on the following  
 (i) Skimming tanks (ii)Trickling filter [8+7]
6. (a) Define Rain water harvesting? Explain modern and ancient methods of Rain water harvesting to conserve water?  
 (b) Explain watershed management practices? [8+7]
7. What do mean by the following?  
 (a) Doubling time (b) Total fertility rate  
 (c) Zero population growth (d) Life-expectancy. [4+4+3+4]
8. (a) Write about the educational tour that you have undertaken and write about the environmental conditions of that particular area and suggest methods to manage them properly  
 (b) Write about the traffic conditions of the town that you are living?. [8+7]

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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) 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) Explain what is Cortour farming? Give what are the measures to be taken to improve the world’s food production in order to meet the needs of growing population.  
 (b) Explain the role of forest resources in national economy of India. [8+7]
3. Write note on:  
 (a) Nitrogen cycle      (b) Carbon cycle      (c) Hydrological cycle [5+5+5]
4. (a) Enumerate some of the common plants and animal species that are found in India  
 (b) Write briefly different types of diversity in ecosystems. [8+7]
5. (a) Write short notes on (i)Biological control of pests (ii)Cultural practice of pest control  
 (b) Thermal pollution plants are deemed essential for generation of electricity, but they also provide wastes which are harmful for man and his environment. Elucidate [8+7]
6. (a) Do you think moral values prevent pollution in the environment? Explain your view?  
 (b) Define climate change? Explain the sources, effects of Global warming? [8+7]
7. (a) Explain through examples how pesticides and industrial chemicals have positive and negative impacts on society.  
 (b) Establish the relation between environment and human health [8+7]
8. (a) What are the types forests in India define them and give proper examples.  
 (b) What is the role of river water in preparing the EIA report for an Industry? [8+7]

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