

**I B.Tech II Semester Supplementary Examinations, August 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 various Governmental institutions and Organizations in the field of public awareness and Preservation of natural assets? [15]
2. Discuss the impact of land use on environmental quality? Discuss soil erosion and discuss the factors which influence the extent of soil erosion with preventive measures. [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) Enumerate some of the common plants and animal species which are found in India  
(b) Write briefly about different types of diversity in ecosystems. [8+7]
5. (a) How does marine pollution occur?  
(b) What are the International activities to control marine pollution? [8+7]
6. (a) Do you think moral values can prevent pollution in the environment? Explain your view?  
(b) Define climate change? Explain the sources and effects of Global warming? [8+7]
7. (a) What is meant by Environmental Health?  
(b) Write the causes of population growth?  
(c) Problems of family welfare programmes [4+6+5]
8. (a) Give a brief account of survey of river ecosystem that you have studied.  
(b) What are the types of forests you can observe in the terrestrial Ecosystem [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 make aware the public about environmental issues? [8+7]
2. Discuss the reasons for land degradation and suggest steps to control it and explain what is Soil management, Shifting cultivation, Desertification and Man induced landslides. [15]
3. (a) Explain about different zones of a ocean?  
(b) Define an Ecosystem, Explain Ecological succession. [8+7]
4. (a) Write about 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) Write short notes on  
(i) Recycling of waste (ii) Vermicomposting  
(b) How solid waste can be managed? [8+7]
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. (a) Discuss the role of Information Technology in Environment of Human health.  
(b) what is the most disturbing factors about population growth in the world? [8+7]
8. (a) What is the use of stratified structure of multilayered vegetation in the forest region?  
(b) Explain the Biotic and Abiotic components present in the different aquatic Ecosystems (Salt water, fresh water) [8+7]

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1. (a) What needs to be done to ward off the menace of carbon-emissions?  
(b) Explain 'stone cancer'. Discuss the role of ozone layer in the atmosphere. [8+7]
2. Describe the water movement among earth components 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. (a) What are decomposers? Explain their role in the ecosystem.  
(b) Discuss the major feature of a stream (river) that differs from that of a lake. [7+8]
4. (a) Write about poaching of wildlife in respect of Indian context.  
(b) Discuss about genetic diversity with examples [8+7]
5. (a) Distinguish between sound, noise and noise pollution?  
(b) Discuss adverse effects and control of water pollution? [8+7]
6. (a) Define Rain water harvesting? Explain modern and ancient methods of Rain water harvesting to conserve water?  
(b) Explain watershed management reclamation practices? [8+7]
7. (a) What are the major chemical infections to organisms?  
(b) Why is life expectancy is dropping in many African countries? [8+7]
8. (a) Give a account of behavior of some common birds.  
(b) What are the components of river environment? [8+7]

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1. Write a detailed note on various Governmental institutions and Organizations in the field of public awareness and Preservation of natural assets? [15]
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. (a) Describe the abiotic and biotic components of a grassland ecosystem  
(b) With a neat sketch, explain how the element carbon is recycled in nature. [8+7]
4. (a) Explain India As a mega diversity nation.  
(b) Explain about indirect values of biodiversity. [8+7]
5. (a) Discuss the ways to minimize radiation exposure in case of nuclear accidents?  
(b) Define solid waste? Write the main principles (components) of solid waste management? [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. Write short notes on  
(a) Doubling time  
(b) Total fertility rate  
(c) Zero population growth  
(d) Life-expectancy. [4+4+3+4]
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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