

Code No: R7210403

1

II B.Tech I Semester(R07) Regular/Supplementary Examinations, December 2009  
ENVIRONMENTAL STUDIES

(Common to Electronics & Communication Engineering and Electronics & Computer Engineering)  
Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

**KOTTAM**  
INSTITUTIONS

1. (a) State the interrelationship of hydrosphere with the other components of the environment.  
(b) Discuss in detail about the different layers of the atmosphere. [8+8]
2. (a) Explain the various pros and cons of modern day pesticides.  
(b) Discuss the alternate methods of Insect Control avoiding the use of pesticides. [8+8]
3. (a) Explain the role of producers, consumers and decomposers in an ecosystem.  
(b) Discuss the concept of eco system. [8+8]
4. (a) What are the objectives of identifying biodiversity hotspots?  
(b) Classify the types of biodiversity and explain in detail with examples. [6+10]
5. (a) What is municipal solid waste management? Explain in brief various management activities of solid waste.  
(b) What are various types of hazardous wastes and explain how to manage these wastes. [8+8]
6. What are impacts of resettlement and rearrangement of people due to a development activity? What are your suggestions for a proper justification with reference to sustainable development?[16]
7. Discuss in brief:
  - (a) Artificial Intelligence
  - (b) Indoor Air pollution
  - (c) Value Education. [4+6+6]
8. (a) What is an ecotourism? Why Government is encouraging the ecotourism projects so much?  
(b) Explain in a pond ecosystem.  
(c) Give a report on what difference you find between a pond and an aquarium. [6+6+4]

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1. (a) State the interrelationship of hydrosphere with the other components of the environment.  
(b) Discuss in detail about the different layers of the atmosphere. [8+8]
2. (a) Explain the processes that causes land degradation.  
(b) Discuss the role played by the non-conventional energy resources towards the protection of the environment. [8+8]
3. (a) Discuss the salient features of an estuarine ecosystem.  
(b) Write a note on Arctic Tundra. [8+8]
4. (a) Explain the efforts taken towards conservation of biodiversity in India.  
(b) Is biotechnology a threat to biodiversity? Substantiate your answer with examples. [8+8]
5. Write a note on any two of the following:  
(a) E-Waste and its management  
(b) Disaster Management  
(c) Mitigation Planning. [8+8]
6. (a) What is urbanization? Discuss various problems related to urbanization.  
(b) Explain briefly about urban planning and maintenance mentioning the management practices adopted in beautiful and cleanliest cities of Singapore, Chandigarh and Surat.[8+8]
7. Discuss in brief:  
(a) Artificial Intelligence  
(b) Indoor Air pollution  
(c) Value Education. [4+6+6]
8. (a) Write a short note on Ecotourism?  
(b) How is it helpful in improving the quality of tourism?  
(c) How Ecotourism is connected to Women and Tribal Welfare Schemes? [6+6+4]

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1. (a) Enumerate the properties of soil.  
(b) Discuss the hydrological cycle with a neat sketch. [8+8]
2. (a) Discuss about the uses and abuse of land resources.  
(b) Justify the necessity of developing non-conventional sources of energy. [8+8]
3. (a) Explain the manner in which ecosystems are destroyed by human activities.  
(b) Explain the interaction and interdependency of biotic and abiotic parts of nature. [8+8]
4. (a) Discuss the characteristics of Biogeographical zones in India.  
(b) Distinguish between in-situ and ex-situ conservation. [8+8]
5. Write a short note on any FOUR of the following:  
(a) Composting and Sanitary landfilling  
(b) Ambient air quality levels  
(c) Waterborne diseases  
(d) E-waste management  
(e) Odour Pollution and its control. [16]
6. Write a short note on any FOUR of the following:  
(a) Chernobyl Disaster  
(b) Rio Summit 1992  
(c) Water Act 1974  
(d) Commonalities of Air Pollution Episodes. [16]
7. Discuss any FOUR of the following:  
(a) 'Environmental education is a synonym of value education'  
(b) 'Technology owes ecology an apology'  
(c) Man is the wildest of all animals; Man is the pest of the planet.  
(d) Life after 100 years  
(e) Extinction of mankind. [16]
8. (a) What is an ecotourism? Why Government is encouraging the ecotourism projects so much?  
(b) Explain in a pond ecosystem.  
(c) Give a report on what difference you find between a pond and an aquarium. [6+6+4]

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1. (a) Discuss in detail the different components of environment.  
(b) What the factors leading to the increased resource consumption on earth in recent years? [8+8]
2. (a) What are the advantages of recycling minerals?  
(b) How can you as an individual conserve different natural resources? [8+8]
3. (a) What steps can be taken to conserve grasslands and what are the common reasons for destruction of these ecosystem?  
(b) Briefly write about the different kinds of grasslands in India, also stating the main activities in such areas. [8+8]
4. (a) Discuss the status of India as a mega diverse nation of biodiversity.  
(b) Mention the important site in India identified for the conservation of endemic species and list the major endemic species of India.[8+8]
5. Write a short note on any FOUR of the following:
  - (a) Composting and Sanitary landfilling
  - (b) Ambient air quality levels
  - (c) Waterborne diseases
  - (d) E-waste management
  - (e) Odour Pollution and its control. [16]
6. Discuss any two of the following:
  - (a) Global Warming
  - (b) Acid Rains and Heat Islands. [8+8]
7. Discuss in brief:
  - (a) Women and Child Welfare
  - (b) Water Management
  - (c) HIV/AIDS. [4+4+4+4]
8. (a) Explain the environmental value of a lake in Andhra Pradesh.  
(b) Prepare a report on its maintenance and management and suggest any improvements. [10+6]