

Code No: 07A4EC01

**Set No. 1**

**II B.Tech II Semester Regular Examinations, Apr/May 2009**

**ENVIRONMENTAL STUDIES**

**( Common to Civil Engineering, Electrical & Elctronics Engineering, Mechanical Engineering, Computer Science and Engineering, Electronics & Instrumentation Engineering, Bio Medical Engineering, Information Technology, Electronics & Control Engineering, Mechatronics, Computer Science and Systems Engineering, Metallurgy and Material Technology, Production Engineering, Bio Technology & Automobile Engineering)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**

**All Questions carry equal marks**

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1. (a) Discuss about the principles of sustainable development.  
(b) Write a note on pollution. [6+10]
2. (a) Discuss the use of bioenergy as a non-conventional energy.  
(b) Discuss about the equitable use and conservation of natural resources. [8+8]
3. (a) Discuss the major features of a stream (river) that differ from that of a lake.  
(b) Discuss zonation in an ocean. What role is played by oceans in terms of providing resources and regulating climate? [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 noise pollution? Write the effects of noise pollution on human health mentioning the noise levels of some noisy sources in dB (A).  
(b) Describe the various methods of control of 'Noise Pollution'. [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. (a) 'Information Technology can play an important role in improving the quality of Human life and environment'-Explain.  
(b) Write a note on the control of the transmission of AIDS. [10+6]
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]

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Technology, Electronics & Control Engineering, Mechatronics, Computer  
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**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions  
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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) Discuss the major environmental impacts of mineral extraction.  
(b) Explain the different types of precipitations. [8+8]
3. (a) Discuss the salient features of an estuarine ecosystem.  
(b) Write a note on Arctic Tundra. [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 note on any two of the following:  
(a) Management of E-Waste and Biomedical wastes.  
(b) Incineration vs. Composting as waste management practices  
(c) Disaster Management. [8+8]
6. Give a short note on any two of the following:  
(a) Climatic changes around the world  
(b) Heat Islands  
(c) Slums in India. [16]
7. Write a detailed note on:  
(a) Population explosion  
(b) HIV-AIDS. [8+8]
8. (a) What is an ecotourism? Why Government is encouraging the ecotourism projects so much?

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- (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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**Time: 3 hours**

**Max Marks: 80**

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

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1. What are the different activities that can be taken up to increase public awareness of environmental issues? Explain how they help in better environmental management. [16]
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 concept of ecological pyramid.  
(b) Distinguish between food chain and food web. [8+8]
4. (a) Distinguish between the endemic and endangered species.  
(b) Discuss the different threats to biodiversity. [8+8]
5. (a) What are various types of refuse? Write the main components and characteristics of refuse. What is sanitary land filling? Discuss the advantages and disadvantages of this solid waste disposal method.  
(b) Describe in detail the management of Electronic wastes. [8+8]
6. Discuss in detail, the following:  
(a) Watershed management  
(b) Urbanization and its effects. [8+8]
7. Write a note on any FOUR of the following:  
(a) Women and Child Welfare  
(b) Population Pyramid  
(c) Value education. [16]
8. (a) Give a detailed report on any two medicinal plants, and any two birds and their uses to the human life.

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- (b) Write a brief note on any two trees and any two mammals we come across in daily life and their value to the environment. [8+8]

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Production Engineering, Bio Technology & Automobile Engineering)**

**Time: 3 hours**

**Max Marks: 80**

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

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1. (a) Discuss the objectives of environmental management.  
(b) Define Environment and Environmental Science and explain the importance of Environmental science. [6+10]
2. (a) Briefly discuss droughts and floods with respect to their occurrence and impacts.  
(b) What is the relationship between fair land distribution and appropriate land use? [8+8]
3. (a) What are ecological pyramids? Show Ecological Pyramids for a Pond, a forest and a Desert.  
(b) What are the commonalities and differences between a marine eco system and a forest eco system. [8+8]
4. (a) Extinction is part of the evolutionary process. Still why should we bother about the ongoing species extinction.  
(b) Identify and explain the present day major threats to the biodiversity of India. [8+8]
5. (a) What are various types of refuse? Write the main components and characteristics of refuse. What is sanitary land filling? Discuss the advantages and disadvantages of this solid waste disposal method.  
(b) Describe in detail the management of Electronic wastes. [8+8]
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 in brief:

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(a) Artificial Intelligence

(b) Indoor Air pollution

(c) Value Education.

[4+6+6]

8. Assuming you've visited Hussainsagar Ecosystem as the Leader of a Committee for a couple of weeks, give a detailed report of the field work. Describe the Ecosystem in detail with reference to biodiversity, threats to ecosystem etc. Give suggestions for improvement of the Eco-Tourism project, to make it worlds greatest ecotourism project. [16]

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