

Code No: 07A52201

R07**Set No. 2**

III B.Tech I Semester Examinations, May 2011
ENVIRONMENTAL STUDIES
Instrumentation And Control Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are various types of solids generated from your city? Describe the outcome of poor management of solid waste illustrating your answer with any case study. [16]
2. (a) Explain the control measures for controlling soil pollution.
 (b) What is noise ? Describe briefly effects of noise on human health. [8+8]
3. (a) Summarize the scope and importance of the environmental studies.
 (b) Define the following terms.
 - i. Environmental studies.
 - ii. Environmental science.
 - iii. Environmental engineering [8+8]
4. (a) Differentiate between biodiversity and ecosystem diversity.
 (b) What are ecological pyramids? Show ecological pyramid for a pond, a forest and a desert. [8+8]
5. (a) Explain how consumerism has affected the present society ?
 (b) What are the recent climate changes noticed in the environment. [8+8]
6. (a) Name hot spots of biodiversity in India. Why should we protect the wild life.
 (b) List five endangered and endemic species of India. Explain the various methods to preserve these species on Indian earth. [8+8]
7. Explain the following information technology tools used to study global environment.
 - (a) GIS.
 - (b) GPS
 - (c) Remote sensing. [16]
8. (a) List out the steps you have personally taken to save energy in college and at home
 (b) Discuss the disparity in energy consumption between developing countries and developed countries. [8+8]

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1. (a) Discuss the various methods of waste land reclamation.
(b) What is meant by consumerism? State root causes for attaining excess consumerism. [8+8]
2. (a) Give a detailed account of the process of succession in a pond ecosystem.
(b) Explain in what way estuarine ecosystem differs from a lake ecosystem. [8+8]
3. Define HIV/AIDS. What are the causes, symptoms and preventive methods of AIDS?. [16]
4. (a) Explain the significance of each a biotic factor of the environment in regulation of environmental conditions.
(b) What is environmental science ? Discuss its inter connections and limitations. [8+8]
5. (a) Explain the how you conduct a survey on wetlands bird life (Rivers, lakes, marshes etc.)
(b) Prepare a document on how human influence on aquatic ecosystems and their consequences on human life. [8+8]
6. (a) Define drought. How is it interpreted based on meteorological, agricultural and hydrological effects.
(b) List the major arguments cited against the construction of large dams. [8+8]
7. (a) Differentiate
 - i. Consumption value and productive value of biodiversity.
 - ii. Bio sphere reserve and gene bank.
(b) Enumerate five important biosphere reserves, national parks and wild life. State where they are located. [8+8]
8. Write case studies on environmental pollution. [16]

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R07**Set No. 1**

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1. (a) Explain the role of teachers and students in public awareness of environmental protection.
 (b) Why do consider the environmental studies are interdisciplinary in nature. [8+8]
2. (a) What are human rights? Explain how human rights influence social environment .
 (b) Explain the following environmental related diseases ?
 i. Water borne diseases
 ii. Air pollution related diseases. [8+8]
3. (a) Classify solid waste . What are the sources of urban and industrial solid wastes.
 (b) What adverse effects can solid waste cause? How can the solid waste be managed ? [8+8]
4. (a) Explain different extinction species, endangered species, vulnerable species and rare species with examples.
 (b) Classify biodiversity and explain each type. [8+8]
5. (a) Discuss the major features of a river ecosystem that differ from that of a lake ecosystem.
 (b) Discuss the salient features of an estuarine ecosystem. [8+8]
6. Describe the following aspects of polluted site municipal solid waste which you have visited.
 (a) Physical features.
 (b) Type of solid waste & Their composition
 (c) Nature and quantity of waste of collection.
 (d) Type of treatment and disposal.
 (e) Environment pollution problems such air pollution, ground water pollution etc . [16]
7. (a) Explain the possible contributions of individual towards energy conservation.

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Set No. 1

- (b) Compare and contrast nuclear power with solar power from the environmental point of view. [8+8]
8. (a) What are the ozone depleting chemicals and their impacts on global temperature ?.
- (b) What are the ethics and issues involved in conservation of nature ?. [8+8]

FIRSTRANKER

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R07

Set No. 3

III B.Tech I Semester Examinations, May 2011
ENVIRONMENTAL STUDIES
Instrumentation And Control Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the factors affecting biodiversity and its conservation.
(b) Discuss the need for biodiversity conservation. [8+8]
2. (a) Discuss consumerism and waste products in relation to developed and developing
(b) Explain in detail the nuclear accidents and their effects on environment. [8+8]
3. (a) What is meant by value education ? Explain the necessity of value education.
(b) What do HIV and AIDS mean ? Explain objectives of value education. [8+8]
4. (a) What is the methodology to be followed for study of causes, and impacts of a
(b) Write about any polluted site you have visited and describe your findings in details. [8+8]
5. (a) Explain how public awareness can help to reduce pollution ?
(b) Explain the limitations and inter connection of environmental science. [8+8]
6. (a) Explain the recycle and reuse of municipal solid waste
(b) List the various sources of air pollution and mention type of pollutants generated from each source. [8+8]
7. (a) What is difference between ecology and environment. List out the factors affecting Terrestrial ecosystem.
(b) What are the limiting factors of an ecosystem in an ecosystem.
(c) Why matter cycling in tropical system is more efficient. [6+6+4]
8. (a) Explain the difference in consumption of resources by the countries of the developing and developed world.
(b) Discuss the ill effects of deforestation and explain what you understand by the term sustainable management of forests. [8+8]
