

**Subject Code: R13106/R13**

**Set No - 1**

**I B. Tech I Semester Regular Examinations Feb./Mar. - 2014**

**ENVIRONMENTAL STUDIES**

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

- 1.(i) What are the causes of floods and droughts?
- (ii) What are ecological pyramids? Write about different types of pyramids
- (iii) Write about different values of biodiversity.
- (iv) Write about Bhopal gas tragedy.
- (v) What is wild life protection act?
- (vi) Write about ecotourism.

[4+4+5+4+3+2]

**PART-B**

- 2.(a) Define biodiversity. Write about threats of biodiversity.
- (b) Write about EIA, its significance at various stages.
- 3.(a) Why should public have awareness about Environmental protection acts?
- (b) What are greenhouse gases?
- (c) Write about rain water harvesting.
- 4.(a) What is Environmental audit? Explain.
- (b) Write about Grassland ecosystem and Aquatic ecosystem
- 5.(a) Write about different types of energy resources.
- (b) What is the role of an individual in conservation of natural resources.
- (c) What are the hot spots of biodiversity?
- 6.(a) Discuss the causes and effects of global warming
- (b) Distinguish between renewable and non- renewable resources
- 7.(a) Mention about different types of pollution briefly.
- (b) Discuss about Environmental ethics and issues connected there on.

[8+8]

[6+5+5]

[4+12]

[4+4+8]

[8+8]

[6+10]

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**Set No - 2**

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**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

- 1.(i) Write about soil pollution and causes of soil degradation.
- (ii) Give the salient features of a pond ecosystem
- (iii) What is meant by species Biodiversity?
- (iv) What are the causes of deforestation?
- (v) Write the various stages of EIA.
- (vi) Write a report on any Environmental issue which you have studied.

[4+4+4+3+3+4]

**PART-B**

- 2.(a) Distinguish between food chain and food web.
- (b) Discuss about EMP (Environmental Management Plan)
- 3.(a) What are the three levels of biodiversity?
- (b) Mention about different types of mining and effects of mining?
- 4.(a) Name different types of pollution.
- (b) Give an account of energy flow in an ecosystem.
- (c) Write about Environmental Waste Products and their disposal
- 5.(a) Write about producers, consumers and decomposers.
- (b) What is the extinction of species? Describe the processes which lead to extinction of species.
- 6.(a) Discuss the salient features of The environment protection act ,1986.
- (b) Write about greenhouse gases and ozone layer.
- 7.(a) Write about role of IT in Environment and human health.
- (b) What is the significance of rain water harvesting?
- (c) Write about ecotourism?

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**Set No - 3**

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**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

- 1.(i) Write about structure and function of ecosystem.
- (ii) Write about the sources of water pollution
- (iii) Discuss about benefits of Dam construction.
- (iv) Discuss the problems involved in enforcement of Environmental Legislation.
- (v) Differentiate between endangered and endemic species.
- (vi) Write a note on any polluted site you have visited.

[5+3+4+4+3+3]

**PART-B**

- 2.(a) Distinguish between deforestation and desertification.
- (b) Write about different energy pyramids. [8+8]
- 3.(a) Explain the process of succession in a newly formed pond.
- (b) Give an account of crisis and conflicts over water. [8+8]
- 4.(a) Name different types of air pollutants and sources of air pollution.
- (b) What are the stages involved in EMP and EIS. [8+8]
- 5.(a) What are the objectives of wild life protection act?
- (b) What do you understand by environmental ethics?
- (c) Discuss various methods of safe disposal of solid waste. [4+4+8]
- 6.(a) What are the major issues and problems related to Resettlement and Rehabilitation of displaced people.
- (b) Write about significance of EIA.
- (c) Write about ecotourism? [8+4+4]
7. Write short note on
- (i) Hot Spots of Biodiversity.
- (ii) Man and Wildlife conflict.
- (iii) Conservation of Biodiversity. [6+5+5]

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**Set No - 4**

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**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

- 1.(i) Write about the sources of air pollution
- (ii) What are in-situ and ex-situ conservation?
- (iii) Explain the concept of food chain and food web.
- (iv) Write about environmental audit?
- (v) Discuss energy problems related to urban areas.
- (vi) Discuss about conservation of water resources.

[4+5+4+3+3+3]

**PART-B**

- 2.(a) What is mining? Describe different methods of mining.
- (b) Differentiate between primary succession and secondary succession.
- (c) Write about Nuclear hazards.

[6+6+4]

- 3.(a) Distinguish between renewable and non-renewable resources.
- (b) Discuss about Man induced landslides and its effects with case study.

[6+10]

- 4.(a) What are the sources, effects and control measures of noise pollution.
- (b) What is meant by ozone layer? How CFC'S and ozone depleting substances affect ozone layer?

[8+8]

- 5.(a) Why decomposers are called micro consumers?
- (b) What are the various methods of safe disposal of solid waste?
- (c) Write about desert ecosystem.

[4+8+4]

- 6.(a) What is the significance of EIA and the stages involved
- (b) 'India is a Biodiversity Nation'. Discuss

[8+8]

7. Write short note on
  - (i) Values of Biodiversity
  - (ii) Water Act and Wild life protection Act
  - (iii) Environmental Legislation.

[4+8+4]