

**ENVIRONMENTAL SCIENCE**

(Common to EEE, CSE & IT)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Write about the role of wild life institute of India.
  - What are the environmental effects of mining?
  - What do mean by Ex-situ conservation of biodiversity?
  - Give examples for producers and consumers in the forest ecosystem.
  - Enlist the major reasons for Bhopal gas tragedy.
  - Define smoke and give two examples.
  - Write why rehabilitation of people is necessary.
  - Write four major impacts of global warming.
  - Expand HIV and AIDS.
  - What do you mean by population explosion?

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 (a) What are the effects of deforestation on environment?  
(b) Differentiate between renewable and non-renewable resources. Give examples for both renewable and non-renewable resources.

**OR**

- 3 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.

**UNIT – II**

- 4 (a) Define ecosystem and explain in detail about ecological pyramids.  
(b) What is a hot spot? Name two biodiversity hot spots in India.

**OR**

- 5 (a) How does a complex food web protect the ecosystem from degradation?  
(b) Describe the structure and functions of an ecosystem.

**UNIT – III**

- 6 Explain about the environment pollutants and write about the major classes of pollutants.

**OR**

- 7 (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.

**UNIT – IV**

- 8 (a) Write the summary of water act (Prevention and control of pollution).  
(b) Write briefly about forest conservation act.

**OR**

- 9 (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.

**UNIT – V**

- 10 What is meant by population stabilization? Discuss the family welfare and family planning program in Indian context.

**OR**

- ~~11 Describe your recent visit to any industrial site and explain the impact of pollutants emitted on environment and discuss the various measures to control the pollution levels.~~