

## FACULTY OF ENGINEERING

B.E. II/IV Year (CE/ECE/M/P/CSE & Automobile Engg.) II Semester (Main) Examination,  
May/June 2011

## ENVIRONMENTAL STUDIES

Time : 3 Hours]

[Max. Marks : 75

Answer all questions from Part A.

Answer five questions from Part B.

Part A – (10 x 2½ = 25)

1. Differentiate between Bio-sphere and ecosystem.
2. Discuss the concept of “Endangered Species”.
3. Mention the causes of soil erosion.
4. Enumerate various methods of water conservation.
5. State the benefits of biodiversity.
6. Write the function of Pollution Control Board.
7. Briefly explain the necessity of watershed management.
8. Write effects of population explosion on sustainable ecosystem.
9. List out a few air-pollution control monitoring equipment.
10. Briefly describe legal provisions in India for management of Disasters.

Part B – (5 x 10 = 50 marks)

11. (a) Write the measures to be taken to prevent depletion of ground water resources. 5
- (b) Discuss the growing energy needs of our country. Critically examine the sun energy option. 5
12. (a) Write how the energy and food needs satisfy in a river ecosystem. 5
- (b) Discuss the significance of food chains, food webs and Food pyramids to maintain balanced ecosystem. 5
13. (a) Explain the hierarchical levels of biodiversity. 5
- (b) Write endangered and endemic species of India. 5
14. (a) Give an account of how human interactions are responsible for environmental degradation. 5
- (b) Explain the schematic treatment as a control of air pollution from any chemical industry. 5
15. (a) Write and explain the salient features of Forest Conservation Act of the Indian Constitution. 5
- (b) Classify solid waste. Write the adverse effects of solid waste. State how can the solid waste be managed. 5

16. (a) Write the ethical basis of environment education and awareness. 6
- (b) Write the basic principles of disaster management. 4
17. Write short notes on any three of the following : 10
- (a) The nitrogen cycle in the ecosystem.
- (b) Thermal pollution.
- (c) The conservation ethic and traditional value systems of India.
- (d) Impact of disasters on environment, infrastructure and development.