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B.E/ B.Tech.(Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2011

COMMON TO MECH, CIVIL, PRINTING, MANUFACTURING & INDUSTRIAL

THIRD SEMESTER – (REGULATION 2004)

GE 183 – ENVIRONMENTAL SCIENCE AND ENGINEERING

Time : 3 hrs

Max Mark : 100

Answer ALL Questions

Part – A (10 \* 2 = 20 Marks)

1. Name the four segments of environment
2. How can mineral resources be conserved?
3. What is in-situ conservation?
4. What do you mean by man-wild life conflicts?
5. What do you mean by Ecological succession?
6. Differentiate between degradable and non-degradable pollutants.
7. Mention the main cause of smog?
8. Define water shed management
9. What is carrying capacity?
10. What is the role of NGO in environment?

Part B (5 \* 16 = 80 Marks)

11. Explain the following
  - (i) Equitable use of resources for sustainable life styles
  - (ii) Use and exploitation of mineral resources
  - (iii) Dams and their effects on forest and tribal peoples
12. a. Classify and explain briefly the biogeographical regions of India

(OR)

- b. Explain with illustration
  - (i) Nitrogen cycle
  - (ii) Carbon cycle

13. a. Enumerate the causes, effects and control measures of marine and thermal pollution

(OR)

b. What do you mean by Soil Waste management system? What are the causes, effects and control measures of urban and industrial wastes

14. a. Explain the important provisions in the water (prevention and control of pollution) Act, 1974 on environmental pollution

(OR)

b. Explain the following

(i) Waste land reclamation

(ii) Resettlement and rehabilitation of people

15. a. What do you mean "Population Explosion"? Discuss the consequence of population explosion with respect to Indian scenario.

(OR)

b. Explain the following

(i) Women and child welfare

(ii) Write notes on Value education