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**Question Paper Code : 70739**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Second / Third / Fourth / Fifth / Sixth / Seventh Semester

Civil Engineering

GE 8291 – ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to All branches)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define environment. What is the scope of environmental studies?
2. What is biodiversity? List the levels of biodiversity.
3. State the significance of solid waste management.
4. Distinguish between non-degradable pollutants and biodegradable pollutants.
5. What is deforestation? List the main causes responsible for deforestation.
6. List the problems associated with the use of pesticides.
7. What are the effects of climate change in the environment?
8. What is acid rain?
9. List the organizations working for women and child welfare.
10. Define natality and mortality.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the functions of an ecosystem.

Or

- (b) Describe the energy flow in ecosystem.

12. (a) Discuss the causes, effects and control measures of air pollution.

Or

(b) Explain the effects of earthquakes and their hazards.

13. (a) Discuss the importance of forest resources.

Or

(b) Describe the role of an individual in conservation of natural resources.

14. (a) Describe resettlement and rehabilitation of people and list the objectives of rehabilitation.

Or

(b) Explain environmental protection act, 1986. What are the general powers of central government to take measures for protecting and improving the environment?

15. (a) Explain the factors controlling population growth.

Or

(b) Discuss the methods of transmission of AIDS virus.

PART C — (1 × 15 = 15 marks)

16. (a) "The need for public awareness about environment is of vital importance". Discuss.

Or

(b) Describe the role of information technology in human health.