

Code: 19CE4501E

**III B.Tech - I Semester – Regular Examinations
JANUARY 2022**

**POLLUTION PREVENTION AND MANAGEMENT
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

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- Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place
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PART – A

1. a) Define Rural Sanitation?
- b) Identify the basic principle of biomedical waste management.
- c) Specify the types of waste generated from different industries?
- d) Write about the measurement of noise pollution.
- e) Discuss the health hazards of E-waste.

PART – B

UNIT – I

2. a) Discuss in detail the types of stabilization ponds. 6 M
- b) Explain the different types of effluent disposal methods in rural sanitation. 6 M

OR

3. a) Briefly describe the Soak pits and Low cost excrete disposal systems. 6 M

b) Explain in detail about Septic tanks in rural areas. 6 M

UNIT – II

4. a) Describe segregation, labelling of bins and collection of biomedical waste. 6 M

b) Specify the objectives and significance of Biomedical Waste Management. 6 M

OR

5. a) Explain in brief about Safe storage and transportation methods of biomedical waste. 6 M

b) Distinguish between different disposal methods of biomedical waste. 6 M

UNIT-III

6. a) Outline the sources of hazardous waste and discuss the classification of hazardous waste. 6 M

b) Distinguish hazardous waste from general waste with examples. 6 M

OR

7. a) Explain in detail the pros and cons of Land filling of hazardous waste. 6 M

b) Discuss underground disposal and ocean dumping of hazardous waste. 6 M

UNIT – IV

8. a) “Industrial noise is an occupational health hazard”, Discuss. 6 M

b) Specify the recommended permissible noise levels for different locations. 6 M

OR

9. a) Outline the impacts of noise on Ecosystem. 6 M
b) Specify the different sources of noise pollution. 6 M

UNIT – V

10. a) Outline the impacts of E-waste on air, water and soil. 6 M
b) Identify the Role of individual for E-waste management in the current scenario. 6 M

OR

11. a) List out the Current E-waste Management rules. 6 M
b) Discuss how E-waste can be managed to prevent environmental pollution. 6 M