

## III B. Tech I Semester Regular Examinations, February-2022

**ENVIRONMENTAL POLLUTION & CONTROL**

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

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**UNIT-I**

1. a) Discuss in detail about the sources, effects and control measures of Noise Pollution. [8M]  
b) Explain any two methods of controlling Gaseous Emissions. [7M]

**(OR)**

2. a) Along with the respective equations, discuss how do you estimate the cycle-time of noise pollution, speed and sound pressure levels. [8M]  
b) Discuss in detail various air quality parameters and their limitations to be suitable for daily need. [7M]

**UNIT-II**

3. a) Explain the process of proportioning in industrial wastewater treatment. [7M]  
b) Describe how volume reduction of waste can be achieved in industries. [8M]

**(OR)**

4. a) What are the merits and demerits of common effluent treatment plants? [8M]  
b) What is the significance of recirculation of industrial wastes? Explain the principle involved in it. [7M]

**UNIT-III**

5. a) What is the purpose of incineration of solid wastes? With a neat diagram explain incineration process. What are the advantages and disadvantages of incineration? [8M]  
b) Write about the composition of MSW in detail. [7M]

**(OR)**

6. a) Explain sanitary land filling method of solid waste disposal. What are the advantages and disadvantages of land filling? [8M]  
b) Explain about Waste Hierarchy in solid waste management. [7M]



**UNIT-IV**

7. a) What are the criteria for an acceptable sanitation options for Hostels? Explain in brief. [8M]  
b) Discuss in detail about any two low cost sanitation methods along with their merits and demerits. [7M]

**(OR)**

8. a) Discuss the treatment parameters involved in sanitation of public bathing places. [8M]  
b) List out the various components of Environmental Sanitation and explain any two in detail. [7M]

**UNIT-V**

9. a) What are the elements of sustainable development, explain them? [8M]  
b) Write a short note on [7M]  
i) Barriers to sustainability  
ii) Cleaner production for achieving sustainability

**(OR)**

10. a) Explain the various ways of home sustainability as a part of sustainable development. [8M]  
b) What are the different forms of energy contributing towards sustainable development? Discuss in brief. [7M]

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