

IV B. TECH I SEMESTER REGULAR EXAMINATIONS, NOVEMBER - 2023
ENVIRONMENTAL POLLUTION AND CONTROL
(INFORMATION TECHNOLOGY)

Time: 3 hours

Max. Marks: 70

Note : Answer ONE question from each unit (5 × 14 = 70 Marks)

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UNIT-I

- 1. a) Define air pollution, primary and secondary pollutants. [7M]
- b) Define and explain Environmental Lapse rate, Adiabatic lapse rate. [7M]  
State their importance on air pollution.

(OR)

- 2. a) State the impacts of air pollution on humans. [7M]
- b) Define a plume and explain plume behavior with its important in air [7M]  
pollution.

UNIT-II

- 3. a) List the particulate control equipment along with their working [7M]  
principles.
- b) State the advantages and disadvantages of using scrubbers for [7M]  
gaseous pollution control.

(OR)

- 4. a) Explain the working of Bagfilter using a neat sketch. [7M]
- b) Outline the procedure of monitoring stack gases. [7M]

UNIT-III

- 5. a) Illustrate the procedure for collection of solid waste quantity from a [7M]  
locality.
- b) Discuss the purpose and functioning of Transfer stations. [7M]

(OR)

- 6. a) List the factors affecting solid waste generation. [7M]
- b) Illustrate the steps to be followed for estimating vehicle requirement [7M]  
for carrying solid waste.

UNIT-IV

- 7. a) Illustrate three examples of reusing solid waste in day-to-day life. [7M]
- b) Define and explain (i) Composting (ii) Biogas generation. [7M]

(OR)

8. a) State the techniques used for physical processing the solid waste at the processing station. [7M]  
b) Using a neat sketch, explain the functioning of a sanitary landfill. [7M]

UNIT-V

9. a) List out the sources of noise pollution. [7M]  
b) Explain the noise control method due to installation of barriers using neat sketches. [7M]

(OR)

10. a) Why people bother about the noise pollution. List out the strategies to be implemented by public and Government to reduce noise pollution. [7M]  
b) Explain the noise control method using absorbing materials using neat sketches. [7M]

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