



10CV765

Seventh Semester B.E. Degree Examination, Jan./Feb.2021
Air Pollution and Control

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Determine air pollution and briefly explain the various sources of air pollution. (10 Marks)
b. What are the effects of photochemical Smog? Explain in detail. (10 Marks)
- 2 a. Explain with a neat sketch the mechanism of action of air pollutants on human beings. (10 Marks)
b. Explain the effects of various air pollutants on plants (any five). (10 Marks)
- 3 a. List the metrological factors influencing air pollution and explain in detail. (10 Marks)
b. Explain the various types of plume behavior, with a neat sketch showing temperature gradient. (10 Marks)
- 4 a. Explain in brief factors to be considered in industrial plant location and planning. (10 Marks)
b. What is noise pollution? What are the sources and effects of noise pollution? (10 Marks)

PART – B

- 5 a. With a neat sketch, explain typical sampling train for sampling gaseous pollutant. (10 Marks)
b. Describe the method of sampling suspended particulates by high volume filtration. (10 Marks)
- 6 a. Explain briefly air pollution due to automobiles. (10 Marks)
b. What are the various approaches to minimize exhaust emissions? (10 Marks)
- 7 a. What is green house effect? Explain briefly effect of green house on environment. (10 Marks)
b. What is acid rain? How it is caused? Explain briefly the effect of acid rain on surface waters. (10 Marks)
- 8 Write brief short note on:
a. Indoor air pollution.
b. Bhopal gas tragedy.
c. Environmental Acts.
d. Noise pollution standards. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.