



USN

--	--	--	--	--	--	--	--	--	--

10CV765

Seventh Semester B.E. Degree Examination, July/August 2021
Air Pollution and Control

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions.
2. Any missing data may suitably assumed.

- 1 a. Define air pollution. What are the major sources of air pollution? Explain. (10 Marks)
b. What is Smog? Explain in detail photo – chemical Smog. (10 Marks)
- 2 a. What are the effects of sulfur dioxide on materials and vegetation? Explain. (10 Marks)
b. Discuss in detail Bhopal Gas Tragedy. (10 Marks)
- 3 a. With sketches, explain the plume behavior from the industrial stack. (10 Marks)
b. List and explain the meteorological parameter that influences the dispersion of air pollutants. (10 Marks)
- 4 a. Mention the factors to be considered in industrial plant planning. Explain. (10 Marks)
b. Define noise pollution and explain the courses of noise pollution. (10 Marks)
- 5 a. Explain with sketches the operation of electro static precipitation and its advantages and disadvantages. (10 Marks)
b. Name different types of collection equipment and explain any one wet scrubber with a sketch. (10 Marks)
- 6 a. List the factors to be considered to minimize the exhaust emission from automobiles. Explain. (10 Marks)
b. Discuss alternative methods used to control automobile exhaust. (10 Marks)
- 7 Write short notes on :
a) Acid Rain (07 Marks)
b) Global warming (07 Marks)
c) Indoor Air pollution. (06 Marks)
- 8 a. List out the National Ambient Air Quality Standards and explain them briefly. (10 Marks)
b. Discuss the salient features of Air [Prevention and control] Act. (10 Marks)

* * * * *

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.