



10CV765

Seventh Semester B.E. Degree Examination, June/July 2019
Air Pollution and Control

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.
2. Any missing data may be suitably assumed.

PART - A

- 1 a. Define Air Pollution. Explain sources of Air pollution. (06 Marks)
b. Explain Primary and Secondary Air pollutants, with examples. (08 Marks)
c. Explain Photo chemical smog and coal induced smog. (06 Marks)
- 2 a. What are the harmful effects of polluted air on Human beings? (10 Marks)
b. List the major Air pollution episodes. Explain Bhopal Gas Tragedy. (10 Marks)
- 3 a. Explain the types of Inversions. (08 Marks)
b. Explain with neat sketches the different types of plumes. (12 Marks)
- 4 a. Discuss the factors to be considered for locating an industrial plant with reference to air pollution. (10 Marks)
b. Explain effects and controlling of Noise pollution. (10 Marks)

PART - B

- 5 a. Explain the sampling train, with a neat sketch. (10 Marks)
b. Explain with a neat sketch construction, working and use of a High volume air samples. (10 Marks)
- 6 a. Explain with a neat sketch, the principle and construction of Fabric filter giving its applications. (10 Marks)
b. With a neat sketch, explain the principle and operation of an Electro static precipitator. (10 Marks)
- 7 a. Explain Air pollution due to gasoline and Diesel engines. (10 Marks)
b. Explain causes, effects and remedial measures for acid rain. (10 Marks)
- 8 Write short notes on the following :
 - a. Scrubbers.
 - b. Global warming.
 - c. Ozone layer depletion.
 - d. Air Quality standards. (20 Marks)

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