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10CV765

**Seventh Semester B.E. Degree Examination, June/July 2016**  
**Air Pollution and Control**

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, selecting atleast TWO questions from each part.

**PART - A**

- 1 a. Define Air Pollution. Explain primary and secondary air pollutants with examples. (10 Marks)  
b. How London smog is different from Los Angeles smog? Explain. (10 Marks)
- 2 a. Explain briefly the harmful effects of sulfur dioxide on human being and plants. (10 Marks)  
b. Explain the effects of Air pollutants on materials. (10 Marks)
- 3 a. Explain with a neat sketches, how plume behave in different atmospheric stability condition. (10 Marks)  
b. Define Windrose. Explain the importance of windrose in air pollution studies. (10 Marks)
- 4 a. Discuss the factors to be considered for locating an industrial plant with reference to the air pollution. (10 Marks)  
b. Explain the importance of proper planning and zoning of industrial and residential areas from the point of air pollution control. (10 Marks)

**PART - B**

- 5 a. What are the basic considerations of air sampling? Discuss. (08 Marks)  
b. Explain the procedure for the collection of suspended particulates by high volume sampler. (12 Marks)
- 6 a. List the advantages and disadvantages of cyclones separator and also mention their industrial applications. (10 Marks)  
b. Explain with a neat sketch spray tower wet scrubber. (10 Marks)
- 7 a. Explain air pollution due to gasoline and diesel engines. (10 Marks)  
b. What are the causes of acid rain and discuss their remedial measures? (10 Marks)

8 Write short notes on the following :

- a. Global warming.
- b. Ozone layer depletion.
- c. Bhopal gas tragedy.
- d. Meteorological models.

(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.