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Seventh Semester B.E. Degree Examination, April 2018

**Air Pollution and Control**

Time: 3 hrs.

Max. Marks:100

- Note: 1. Answer FIVE full questions, selecting at least TWO questions from each part.**  
**2. Missing data if any may be suitably assumed.**

**PART – A**

- 1 a. Define Air Pollution? How do you classify the air pollutants into different categories? Explain with example. (12 Marks)  
b. Explain photochemical smog and its effects. (08 Marks)
- 2 a. Explain with specific examples the harmful effects of Air pollution on human beings. (10 Marks)  
b. Explain briefly two important cases of Air pollution episodes. (10 Marks)
- 3 a. Describe with neat sketches, how different atmospheric condition give rise to different kinds of plumes. (10 Marks)  
b. Write an explanatory note on air inversion. (10 Marks)
- 4 a. Explain the factors influencing the industrial plant location and planning. (10 Marks)  
b. Write short notes on the following :  
i) Wind rose  
ii) Metrological instruments. (10 Marks)

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**PART – B**

- 5 a. With a neat sketch, explain the working of an electrostatic precipitator. (10 Marks)  
b. Discuss the advantages and disadvantages of wet scrubbing. (10 Marks)
- 6 a. Explain briefly the phenomenon of Green Home effects, with neat sketch. (10 Marks)  
b. Explain the causes and effects of Acid Rain. (10 Marks)
- 7 a. Explain the different control measures adopted to check of air pollutants emitted by automobiles. (10 Marks)  
b. Explain the automobile pollutant into different categories, indicating their sources. (10 Marks)
- 8 Write short note on any four of the following :  
a. Acid Rain  
b. Global warming  
c. Ozone depletion in stratosphere  
d. Indoor Air pollution  
e. Environmental policy act and standard  
f. Bhopal Gas tragedy. (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.