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Roll No. :

320844(20)

**B. E. (Eighth Semester) Examination,
April-May 2021**

(New Scheme)

(Civil Engg. Branch)

AIR POLLUTION and CONTROL MEASURES

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) in each unit of 2 marks and is compulsory. Select any two from (b), (c) and (d) from each unit. All questions carry equal marks.

Unit-I

1. (a) Define air pollution. 2
- (b) Describe classification and source of air pollution. 7

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- (c) Explain characteristics of primary and secondary pollutants with examples. 7
- (d) Describe the procedure to measure particulate matter. 7

Unit-II

2. (a) What is plum? 2
- (b) Explain with sketch : lofting, looping, Neutral of plum behaviour. 7
- (c) Write short notes on laps rate and wind rose diagram. 7
- (d) How is inversion responsible for air pollution? Explain with example. 7

Unit-III

3. (a) What is flyash? 2
- (b) Explain effects of SO_x on human, animals and plants. 7
- (c) Explain effects of NO_x on human, animals and plants. 7
- (d) Write the short notes on natural and anthropogenic sources of SO_x and NO_x pollutants. 7

Unit-IV

4. (a) Give name of two disease cause by air pollution. 2

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- (b) Describe the effects of air pollution on Taj Mahal. 7
- (c) Discuss the chronic effects of lead and fluorine on plants and animals. 7
- (d) Write short note on Bhopal gas tragedy. 7

Unit-V

5. (a) Define acid rain. 2
- (b) What is green house effect? What are major gases responsible for it? Explain it's mechanism? Discuss the adverse effects of it on plants and animals. 7
- (c) Write short notes on : 7
- (i) Ozon layer depletion
- (ii) Indian ambient air quality standards for residential, industrial and sensitive area (SO_2 , NO_2 , TSPM only)
- (d) Compare function of central pollution control board with function of state pollution control board in area of air pollution control. 7