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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B TECH IV Year I Semester Regular Examinations Nov/Dec 2019

AIR POLLUTION & MANAGEMENT

(CIVIL ENGINEERING)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain Air pollution according to Bureau of Indian standards,IS-4167(1966). 6M
b Explain the popular terms of airpollution as follows Aerosol,Smog 6M

OR

- 2 a Explain stationary sources of air pollution 6M
b Discuss the role of humidity in air pollution dispersion 6M

UNIT-II

- 3 a What is fly ash production? How it damages the visibility in atmosphere 6M
b Explain briefly the history of Ozone holes. 6M

OR

- 4 a Explain the term inversion and its types. Discuss the causes and effects of Inversion 6M
b Discuss causes and remedies for photochemical smog 6M

UNIT-III

- 5 What are the applications of electro static precipitators in various industries and briefly explain 12M

OR

- 6 What are the sources of air pollution in the chemical industry? Discuss the air pollution problems and methods of control in chemical industries 12M

UNIT-IV

- 7 a Write short notes on Emission standards 6M
b Write a short notes on Rating scales for indices and Dissemination techniques for air pollution indices 6M

OR

- 8 What are the guidelines prescribed by the central board for minimum stack height in polluting industries? 12M

UNIT-V

- 9 a What are the various methods available to control air pollution by process changes? Illustrate with examples. 9M
b Write a short notes on air pollution modelling 3M

OR

- 10 a How does urban zoning help in reducing the effects of air pollution 6M
b Explain the effect of water bodies, ridges, valleys, terrain roughness on pollutant dispersion 6M

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