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2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
AIR POLLUTION AND CONTROL
(CIVIL ENGINEERING)

NOVEMBER 2005

TIME: 3 HOURS

MAX MARKS: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. (a) Define 'Airpollution'. Mention the different types of Air pollutants giving clearly their sources and effects. [8]
(b) Explain clearly the Primary and Secondary Air pollutants. [8]
2. (a) Explain how air pollutants cause damage to plants and human beings. [8]
(b) Explain the Global effects of Air pollution. [8]
3. (a) Explain the influence of various types of lapse Rates on the dispersion of Pollutants in Atmosphere. [8]
(b) Outline the factors to be considered for the Location of an industry at a certain place. [8]
4. (a) Mention the common Methods of control of gaseous contaminants and describe one Method in detail. [8]
(b) Explain clearly what is meant by 'GREEN HOUSE EFFECT'. [8]
5. (a) Briefly illustrate how Meteorological factors influence and aggravate air pollution problems. [8]
(b) With a neat sketch explain the working of a Fabric filter in removing Air pollutants. [8]
6. (a) With a neat sketch explain the principle of working of an Electrostatic pre-cipitator. [8]
(b) Explain the phenomena of 'Inversion'. [8]
7. (a) Write a note on 'Emission Standards'. [8]
(b) Discuss the recent development in the automobile field to reduce air pollution. [8]
8. Write short notes on the following: [4x4=16]
 - (a) Windrose diagram
 - (b) Acid Rains
 - (c) Ozone holes
 - (d) Settling chambers.