NRJ/KW/17/3155

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination
PRINCIPLES OF AIR AND NOISE POLLUTION
(Environmental Science)
Paper—1

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable examples and diagrams.

1. Describe the natural and anthropogenic sources of air pollution.   10

OR

(a) What are particulates ? Mention various types of particulates.   5

(b) What is photochemical smog ? How is it formed in the atmosphere.   5

2. What are greenhouse gases ? Discuss the contribution of these gases to global warming phenomenon.

10

OR

(a) What are the major impacts of acid rain ?   5

(b) Write an informative note on Bhopal's gas tragic incidence.   5

3. What are the major pollutants emitted by vehicles ? How it can be controlled ?   10

OR

(a) How do you define vehicular air pollution ? Discuss salient features of Motor Vehicles Act, 1988.

5

(b) Explain why catalytic converter is necessary to control vehicular exhaust pollutant.   5

4. Describe the different types of equipments used for the measurement of noise levels.   10

OR

(a) Discuss the method use for minimizing determinant errors.   5

(b) Define the terms mean and median. Under what conditions the median becomes equal to the mean ?   5

5. (a) Explain the utility of Wind Roses.

(b) Define Wind Velocity.

(c) What is Temperature Inversion ?

(d) What are the types of Electrostatic Precipitators ?

(e) Tabulate the prescribed standard for air quality in Indian Context.

(f) Illustrate the formation of Sulphuric acid in Acid Rain.

(g) Why CNG is expected to be less polluting than petrol ?

(h) What do you understand by Biofuels ?

(i) What is the function of Catalytic Converter ?

(j) Define Decibel Scale.

(k) Distinguish between accuracy and precision.

(l) Define Confidence Limit. $1 \times 10 = 10$