

**Fifth Semester B. Sc. (Part – III)
Examination**

ENVIRONMENTAL SCIENCE

Paper – I

(Principles of Air and Noise Pollution)

Time : Three Hours]

[Max. Marks : 50

N. B. : (1) All questions are compulsory and carry equal marks.
(2) Illustrate your answers with suitable examples and diagrams.

1. Discuss in brief the natural and anthropogenic sources of air pollution. 10

OR

(a) What are the effects of photochemical smog on human beings ? 5
(b) Write informative note on temperature inversion. 5

2. Discuss in brief the methods to control air pollution w.r.t. gravity settling chamber. When is it preferred ? 10

OR

(a) Write a brief note on indoor air pollution. 5
(b) Explain the working of fabric filter. 5

3. Discuss the sources of air pollution from automobiles. Suggest control measures. 10

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Contd.

OR

(a) Write informative note on global efforts in reducing vehicular pollution. 5
(b) Describe salient features of motor vehicle act, 1988. 5

4. Discuss in brief the sources of noise pollution. 10

OR

(a) Describe how noise is controlled in industrial establishments. 5
(b) What are determinate and indeterminate errors ? 5

5. Answer any **Ten** questions :—

(i) Define air pollution.
(ii) Enlist factors influencing air pollution.
(iii) Give examples of primary air pollutants.
(iv) Illustrate the formation of sulphuric acid in acid rain.
(v) What is the standard prescribed for SPM in India ?
(vi) What is methemoglobinemia ?
(vii) What is CNG ?
(viii) What is the function of catalytic converter ?
(ix) Enlist exhaust gas treatment devices.
(x) What is a Decibel ?
(xi) Give standard prescribed for noise w.r.t. industry in India.
(xii) What are errors ? 1 x 10 = 10

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