

B.Sc. (Part-II) Semester-IV Examination
ENVIRONMENTAL SCIENCE
(Environmental Pollution)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) **ALL** questions are compulsory.

(2) Question Nos. 2 to 7 carry equal marks.

1. (A) Fill in the blanks :

(a) Pollution that comes from one specific point-such pollution is called _____. ½

(b) Eutrophication is mainly caused due to presence of excess of _____ element in water. ½

(c) Radioactive pollution spread through the earth's atmosphere is called _____. ½

(d) Unit of measurement of noise is _____. ½

(B) Choose correct option :

(a) Which gaseous pollutant has serious effect on human health ? ½

(i) CO₂ (ii) CO

(iii) NO₂

(b) Minamata disease that occurred in Japan is caused due to poisoning of : ½

(i) Methyl mercury (ii) Cadmium

(iii) Lead

(c) Soil erosion or loss of top soil is caused by : ½

(i) Drought and flood (ii) Deforestation

(iii) Agriculture

(d) The normal conversation is done at sound level : ½

(i) 80 dB (ii) 60 dB

(iii) 40 dB

(C) Answer in one sentence :

- (a) Define 'Air pollution'. 1
- (b) Define Ozone depletion. 1
- (c) Define Noise pollution. 1
- (d) Define Radiation pollution. 1

- 2. (a) Describe the effects of air pollution on human being. 4
- (b) Explain classification of air pollutant on the basis of its formation. 4
- (c) Describe sources of sulphur-dioxide as pollutants. 4

OR

- (d) Describe the effect of air pollution on material. 4
- (e) Explain industrialisation as major source of air pollutants. 4
- (f) What is meant by necrosis and chlorosis ? Give its causes. 4
- 3. (g) Describe causes of surface water pollution. 4
- (h) What are organic water pollutants and give effect of organic pollutants on water body. 4
- (i) Explain any four sources of marine water pollution. 4

OR

- (j) Give drinking water quality standards given by WHO/ISO. 4
- (k) Describe the sources of pesticidal pollutants in water. 4
- (l) Explain effects of eutrophication on water bodies. 4
- 4. (a) Define land pollution and explain the effect of soil pollutants on fertility of soil. 6
- (b) Describe the agricultural wastes and their relation with soil degradation. 6

OR

- (c) Explain how industrial wastes are responsible for soil degradation. 6
- (d) Discuss causes and effects of soil salination. 6
- 5. (a) Explain how to monitor noise pollution at personnel level. 6
- (b) Define noise pollution and explain measurement of noise. 6

OR

- (c) Give account of physiological effect of noise on human being. 6
- (d) What is dB ? Explain different standards for noise level with source. 6

6. Explain in brief :
- (m) Non-ionising radiations. 4
 - (n) Nuclear fission with suitable example. 4
 - (o) Effect of radiations on human being. 4
- OR**
- (p) Types of radioactive fallout. 4
 - (q) Application of radioactive isotopes. 4
 - (r) Sources of radioactive pollution. 4
7. (s) Explain in brief Chernobyl nuclear disaster. 4
- (t) Describe control measures of Global warming. 4
 - (u) Explain the effect of ozone depletion. 4
- OR**
- (v) Explain in brief London smog. 4
 - (w) Mechanism of ozone depletion. 4
 - (x) What are the causes of Global warming ? 4

