

- (i) Give the sources for noise. 4

OR

- (j) How noise pollution differs from air pollution? 4
 (k) Write any eight ill effects of noise on human being. 4
 (l) Suggest any four measures to control noise pollution. 4
 6. (m) Explain mechanism of delayed radioactive fallout. 4
 (n) Describe interaction of gamma radiation with human body. 4
 (o) Write advantages of radioactive isotopes. 4

OR

- (p) By giving suitable example explain nuclear fission reaction. 4
 (q) Explain hazards of radioactive radiations. 4
 (r) Describe the units to measure radiation. 4
 7. (s) Explain steps to control global warming. 4
 (t) Describe ozone depleting substances. 4
 (u) Explain the gases along with their sources responsible for green house effect. 4

OR

- (v) Explain mechanism of smog formation. 4
 (w) Write the sources of fluoride to water. 4
 (x) Write effects of global warming on Indian subcontinent. 4

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

Time : Three Hours]

[Maximum Marks : 80

Note :—ALL questions are compulsory.

1. (a) Fill in the blanks :

- (a) The gas leaked in Union Carbide plant at Bhopal is _____ ½
 (b) Energy releasing from the sun is nuclear _____ reaction. ½
 (c) The unit for _____ is RAD. ½
 (d) Decibel is the unit of _____ . ½

- (b) Choose correct option :

- (a) Chornobyl Nuclear plant is situated in : ½
 (i) America
 (ii) Russia
 (iii) England.

(b) The important nutrient element required to plant are : $\frac{1}{2}$

- (i) NPK
- (ii) Hg Pb As
- (iii) U pt Th.

(c) Gaseous pollutant with seven oxides is : $\frac{1}{2}$

- (i) N_2
- (ii) CO_2
- (iii) SO_2 .

(d) Threshold of hearing for noise is : $\frac{1}{2}$

- (i) 90 dB
- (ii) 0 dB
- (iii) 60 dB.

(c) Answer in **ONE** sentence each :

- (a) Which equipment is used to measure noise level ? 1
- (b) What is nuclear fission ? 1
- (c) What are the CFC's ? 1
- (d) What is MIC ? 1

2. (a) Explain primary and secondary air pollutants. 4

(b) Give the major sources of oxides of SO_2 and explain its interaction with water in atmosphere. 4

(c) Write meaning, sources and effects of RSPM. 4

OR

(d) By giving suitable example explain sources and types of air pollutants. 4

(e) Define air pollution and air pollutant. 4

(f) With the help of suitable example explain effect of air pollution on material and property. 4

3. Give the account of eutrophication process—causes, consequences and control measures. 12

OR

Give the account of causes and effects of oil spillage in marine environment. Add a brief note on thermal pollution. 12

4. What do you understand by soil degradations ? Discuss its causes and effects on environment and suggest control measures for it. 12

OR

Give sources and importance of NPK in soil. Give account of advantages of agricultural solid wastes. 12

5. (g) Define noise and give its unit. 4

(h) Explain threshold of pain and hearing. 4