OR

(d) Explain how synthetic detergents effect on aquatic life. 4

(e) Explain the causes of Eutrophication. 4

(f) Explain any four sources of surface water pollution. 4

4. (a) Define land pollution and explain the effect of soil pollution on plants. 6

(b) Explain how municipal waste responsible for soil degradation. 6

OR

(c) Explain relationship of Industrial waste with soil degradation. 6

(d) Give the causes and consequences of soil salination. 6

5. (a) Explain psychological effects of noise on human being. 6

(b) What is dB ? Explain different sources of noise. 6

Fourth Semester B. Sc. (Part – II) Examination

ENVIRONMENTAL SCIENCE

(Environmental Pollution)

P. Pages : 6

Time : Three Hours] [Max. Marks : 80

Note : (1) All questions are compulsory.
(2) Question **2** to **7** carry equal marks.

1. (A) Fill in the blanks :—

(a) The loss of green pigment in plant is called _____. $\frac{1}{2}$

(b) The recommended maximum Lead concentration in drinking water is _____. $\frac{1}{2}$

(c) The CPCB committee recommended noise standards of Industrial area at day time is _____. $\frac{1}{2}$

(d) Chernobyl nuclear disaster took place in the year _____. $\frac{1}{2}$

(B) Choose correct option :—

(a) In the natural clean air the percentage of Nitrogen is

(i) 77·1% (ii) 78·1%

(iii) 79·1% $\frac{1}{2}$

(b) An incidence of cadmium contamination in Japan in which several people suffered from disease popularly known as

(i) Minamata (ii) Itai – Itai

(iii) Cancer $\frac{1}{2}$

(c) Mining practices lead to

(i) Loss of grazing and fertility of soil.

(ii) Damage to flora and fauna.

(iii) All. $\frac{1}{2}$

(d) Radioactivity of U_{92}^{237} is the example of Nuclear

(i) Fusion (ii) Fission

(iii) Fall out $\frac{1}{2}$

(C) Answer in **one** sentence each :—

(a) What is smog ? 1

(b) Define dust. 1

(c) Which are ozone depleting substances ? 1

(d) Define water pollution. 1

2. (a) Describe the effect of air pollution on plant. 4

(b) Explain major sources of air pollutants in Indian metropolitan cities. 4

(c) Describe sources of Nitrogen – dioxide as pollutants. 4

OR

(d) Explain two fold classification of air pollutants. 4

(e) Explain particulate air pollutants with example. 4

(f) Give brief account on air pollution status in India. 4

3. (a) Explain effect of radioactive pollutants on plants. 4

(b) Enlist different water quality standards. 4

(c) Explain how thermal pollution affect on aquatic ecosystem. 4

OR

(c) Explain the techniques available to control noise pollution at source. 6

(d) Explain physiological effect of noise on human being. 6

6. Explain in brief :

(a) Fusion reaction with example. 4

(b) Early and delayed radioactive fallout. 4

(c) Effect of nuclear weapons. 4

OR

(d) Major sources of radiation pollution. 4

(e) Mechanism of radioactive fallout. 4

(f) Health effect of radioactive fallout on human being. 4

7. Describe in brief :

(a) Fluoride pollution in India. 4

(b) Control measures of ozone depletion. 4

(c) Causes of global warming. 4

OR

(d) Bhopal gas tragedy. 4

(e) Mechanism of ozone depletion. 4

(f) Effect of Global warming. 4