

**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 :
- (i) Accumulation of nitrites in the body cause serious disease known as \_\_\_\_\_. ½
  - (ii) Genetic changes may occur due to \_\_\_\_\_ pollution. ½
  - (iii) Exposure to fibres cause \_\_\_\_\_ in the human being. ½
  - (iv) The unpleasant combination of smoke and fog is called \_\_\_\_\_. ½
- (B) Choose correct option :
- (a) The causes of depletion of ozone layer in the atmosphere are :
    - (i) Freon gases
    - (ii) Supersonic jet travels
    - (iii) Nitrogen oxides
    - (iv) All of these ½
  - (b) Water pollution is caused by :
    - (i) CO
    - (ii) PAN
    - (iii) Fertilizers
    - (iv) Fossil fuels ½
  - (c) The biggest nuclear accident occurred in :
    - (i) New York
    - (ii) Chernobyl
    - (iii) Bhopal
    - (iv) Beijing ½
  - (d) Ear muff, or cotton plugs are used to reduce pollution of :
    - (i) Air
    - (ii) Nuclear
    - (iii) Noise
    - (iv) Thermal ½
- (C) Answer in **one** sentence each :
- (a) Define water pollution. 1
  - (b) Define soil pollution. 1
  - (c) What is dB ? 1
  - (d) What is PAN ? 1
2. Explain in brief :
- (a) Sources of air pollution. 4
  - (b) Effect of air pollutants on plants. 4
  - (c) How particulate pollution affects human health ? 4
- OR**
- (d) Effect of NO<sub>x</sub> on material. 4
  - (e) Effect of carbon mono-oxide on man. 4
  - (f) Effect of Aerosols on visibility. 4

3. Explain water pollution status in India. Give the drinking water quality standards. 12

**OR**

Define water pollution. Give the sources and effects of coastal and eustarine water pollution in marine area. 12

4. (g) Effect of soil pollutants on animals. 4

(h) Causes of soil pollution. 4

(i) Soil degradation. 4

**OR**

(j) Industrial waste relation with soil degradation. 4

(k) Soil nutrients and their role. 4

(l) Effects of soil pollutants on plants. 4

5. Define noise pollution and explain psychological effect of noise pollution. 12

**OR**

Give the unit of noise and focus on different techniques of measurement of noise pollution. 12

6. Explain in brief :

(m) Nuclear fusion. 4

(n) Application of radioactive isotopes. 4

(o) Effects of Nuclear weapons. 4

**OR**

(p) Environmental effect of radioactive fallout. 4

(q) Radionuclides. 4

(r) Major sources of radiation pollution. 4

7. Explain in brief :

(s) Causes of Global warming. 4

(t) London smog. 4

(u) Control measures of ozone depletion. 4

**OR**

(v) Consequences of ozone depletion. 4

(w) Chernobyl Nuclear Disaster. 4

(x) Impacts of Bhopal gas tragedy. 4