

**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) Silcosis is caused due to inhalation of \_\_\_\_\_. ½
- (b) A disease blue baby syndrome is caused by \_\_\_\_\_ accumulation in the human body. ½
- (c) \_\_\_\_\_ forms carboxy haemoglobin with blood. ½
- (d) Smog is the combination of \_\_\_\_\_ and \_\_\_\_\_. ½

(B) Choose correct option :

- (a) Long form of PAN is :
  - (i) Peroxy benzoyl nitrate      (ii) Peroxy acetyl nitrate
  - (iii) Peroxy acetyl benzoate ½
- (b) Itai-Itai disease is caused by :
  - (i) Cadmium      (ii) Beryllium
  - (iii) Lead ½
- (c) London smog occurred on :
  - (i) 5<sup>th</sup> December 1952      (ii) 6<sup>th</sup> October 1958
  - (iii) 8<sup>th</sup> December 1988 ½
- (d) \_\_\_\_\_ is the indication of water pollution :
  - (i) Eutrophication      (ii) Temperature
  - (iii) Viscosity

- (C) Answer in **one** sentence each :
- (a) What are Aerosols ? 1
  - (b) What is Epinasty ? 1
  - (c) Define Eutrophication. 1
  - (d) Define Air pollution. 1
2. Explain in brief :
- (a) Effect of  $\text{SO}_2$  on man. 4
  - (b) Sources of air pollution. 4
  - (c) Effect of  $\text{NO}_x$  on plants. 4
- OR**
- (d) Effects of particulate matter on man. 4
  - (e) Classification of air pollutants. 4
  - (f) Effects of  $\text{NO}_x$  on materials. 4
3. Define water pollution and explain the sources of water pollution. 12
- OR**
- Describe the effect of water pollution on plants and animals. 12
4. Describe :
- (g) Industrial waste and soil degradation. 4
  - (h) Soil salination. 4
  - (i) Effect of soil pollution on plants. 4
- OR**
- (j) Municipal waste and soil degradation. 4
  - (k) NPK in soil (nutrients). 4
  - (l) Effect of soil pollution on animals. 4
5. Define noise pollution, give its sources and write on monitoring of noise pollution. 12
- OR**
- What is the unit of noise measurement ? Write on physiological effect of noise pollution. 12

6. Describe :

- (m) Effects of nuclear weapons. 4
- (n) Nuclear fusion reactions. 4
- (o) Radioactive fallout. 4

**OR**

- (p) Applications of radioactive isotopes. 4
- (q) Effects of radioactive fallout on environment. 4
- (r) Nuclear fission reactions. 4

7. Explain in brief :

- (s) Causes of Global warming. 4
- (t) Effect of ozone depletion. 4
- (u) Chernobyl Nuclear Disaster. 4

**OR**

- (v) Control measures for ozone depletion. 4
- (w) Mechanism of ozone depletion. 4
- (x) London smog. 4

