

AS-1433

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) NO₂ poisoning results in _____ disease. ½
- (b) The process of lake aging characterised by nutrient enrichment is called _____. ½
- (c) Unit of noise is _____. ½
- (d) Chernobyl Nuclear disaster occurred on _____. ½

(B) Choose correct option :

- (a) Berylliosis disease is caused by : ½
 (i) Beryllium (ii) Iron (iii) Lead
- (b) A normal conversation is done at sound level : ½
 (i) 80 dB (ii) 60 dB (iii) 100 dB
- (c) The first atom bomb was exploded in the atmosphere over ill-fated : ½
 (i) Nagasaki (ii) Hiroshima (iii) Russia
- (d) The maximum global warming potential is of : ½
 (i) N₂O (ii) CH₄ (iii) CFC

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

- (a) What is necrosis ? 1
- (b) Define noise pollution. 1
- (c) What is ppm ? 1
- (d) Define radioactive fallout. 1

2. Explain in brief :
- (a) Effect of carbon mono-oxide on man 4
 - (b) Classification of air pollutants 4
 - (c) Effect of air pollution on historical monuments. 4

OR

- (d) Effect of NO_x on material 4
 - (e) Indian status of air pollution 4
 - (f) Effect of Aerosols on visibility. 4
3. Define water pollution and explain the effect of oil pollution in marine water. 12

OR

What is eutrophication ? Explain how eutrophication effects the water quality. 12

4. Explain in brief :
- (g) Major soil pollutants 4
 - (h) Agricultural waste and soil degradation 4
 - (i) Soil nutrients and their role. 4

OR

- (j) NPK in soil (nutrients) 4
 - (k) Causes of soil pollution 4
 - (l) Soil degradation. 4
5. Define noise pollution and explain psychological effect of noise pollution on man. 12

OR

Focus on different technique of measurements of noise pollution. Give the Indian Scenario of noise pollution. 12

6. Explain in brief :

- (m) Radioactive isotopes 4
- (n) Major sources of radiation pollution 4
- (o) Effect of radioactive fallout on human beings. 4

OR

- (p) Units of radiations 4
- (q) Effect of radiation pollution on soil 4
- (r) Nuclear fission reactions. 4

7. Explain in brief :

- (s) London smog 4
- (t) Mechanism of ozone depletion 4
- (u) Effect of fluoride on human beings. 4

OR

- (v) Bhopal gas tragedy 4
- (w) Effects of global warming 4
- (x) Fluoride pollution in India. 4

