

(M)

12/5/23

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4507A

E

Unique Paper Code : 32181601

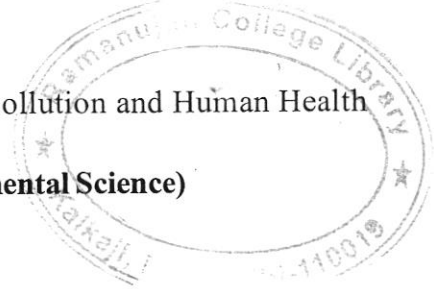
Name of the Paper : Environmental Pollution and Human Health

Name of the Course : Core (Environmental Science)

Semester : VI

Duration : 3 Hours

Maximum Marks : 75



**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **any five** questions.
3. **All questions** carry equal marks.

1. (a) Fill in the blanks/one-word answer

(5)

- (i) \_\_\_\_\_ can cause oil spill in the ocean.
- (ii) Nutrient enrichment in water bodies causes \_\_\_\_\_
- (iii) RSPM stands for \_\_\_\_\_
- (iv) An example of VOC's \_\_\_\_\_
- (v) Ganga Action Plan came in the year \_\_\_\_\_

(b) Write short notes on the following.

(2½×4=10)

- (i) COD
- (ii) Particulate Matter
- (iii) Emerging Pollutants

P.T.O.

## (iv) Fixed Film Reactor

2. What are the primary and secondary pollutants in the air? How do they differ from each other? What are their sources, and explain the underlying processes associated with their release in the atmosphere? Also, discuss their effects on human health. (15)
3. Indoor air pollution has emerged as a serious health concern, especially in the background of rapid urbanization and industrialization. Explain the reasons and suggest ways to minimize indoor air pollution while keeping in view the common sources of indoor air pollution. (15)
4. Discuss the major sources of surface and groundwater pollution. Explain its linkages with land use and anthropogenic activities. Suggest the three most common methods for treating polluted groundwater and minimizing its impact on human health. (15)
5. (a) What do you understand by water-borne and water-associated diseases? Explain them with examples and suggest methods to prevent them. (8)  
(b) Noise pollution is considered a silent killer. How does noise affect human health? Elaborate the statement with suitable examples and a case study. (7)
6. Radioactive pollutions pose the highest risks to human and ecosystem health. Justify the statement by comparing it with other types of pollution. Explain the sources of radioactive pollution in cities. (15)
7. Explain the following (5×3=15)
  - (a) Eutrophication
  - (b) Bioremediation
  - (c) Role of bio scrubbers in pollution control
8. What is the difference between hydrophilic and lipophilic pollutants? How do they move across different environmental compartments? Explain the associated factors that may determine their fate in the environment. (15)

(200)