

2928

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6. Describe how membrane bioreactors can help achieve effective waste management in effluent treatment plants. (15)
7. Differentiate the following (**any three**): (5×3=15)
- (a) Organic waste and chemical contaminants in water pollution
- (b) The somatic and genetic effects of radiation
- (c) Acid mine drainage vs oil spill effects
- (d) Fixed film reactors vs sequencing batch reactors
8. Do you think radioactive pollution has any relationship with genetic mutations? Justify your answer with examples. (15)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2928

H

Unique Paper Code : 32181601

Name of the Paper : Environmental Pollution & Human Health

Name of the Course : **B.Sc. (H) Environmental Science – Core**

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. Answer any **five** questions out of the **eight** provided.
3. **All** Questions carry equal marks.



P.T.O.

1. (a) Define any **five** of the following : (2×5=10)

- (i) Pollutants
- (ii) Ambient air quality
- (iii) Eutrophication
- (iv) Noise pollution
- (v) Marine pollution
- (vi) Activated Sludge Process (ASP)

(b) Fill in the blank of any **five** of the following :

(1×5=5)

- (i) The primary source of thermal pollution is \_\_\_\_\_ .
- (ii) COD stands for and is important because \_\_\_\_\_ .
- (iii) Indoor air pollution is primarily caused by \_\_\_\_\_ .
- (iv) The effect of noise on human mental health includes \_\_\_\_\_ .
- (v) Coral reefs are primarily threatened by \_\_\_\_\_ .

2. (a) In what way can the Ganga Action Plan play a significant role in water pollution control?

(b) How would you prioritize the use of treatment plants during industrial discharge scenarios?

3. (a) Explain the concept of bioaccumulation, including its impact on ecosystems. (8)

(b) List and explain steps for conducting environmental monitoring of coastal zones, and techniques for oil spill management. (7)

4. (a) Elaborate upon the relevance and usefulness of the Oxidation Pond for water treatment. (8)

(b) Discuss the significance of air quality monitoring in urban planning. (7)

5. Write short notes on **any three** of the following: (5×3=15)

- (a) National Ambient Air Quality Standards of India
- (b) Biotrickling filters in pollution control
- (c) Effects of heavy metals on human health
- (d) Solubility and mobility of lipophilic pollutants