

B.Tech. Seventh Semester (Food, Pulp & Paper, Oil & Paint & Petro Technology) (CGS)
11061 : Elective - I : Industrial Waste Treatment : 7 CT 04

P. Pages : 2

Time : Three Hours



AU - 2951

Max. Marks : 80

- Notes :
1. Answer **three** question from section A and **three** question from section B.
 2. **Due credit will be given to neatness and adequate Dimensions.**
 3. Assume suitable data wherever necessary.
 4. **Diagrams and chemicals equations should be given wherever necessary.**
 5. **Illustrate your answer necessary with the help of neat sketches.**
 6. **Discuss the reaction, mechanism wherever necessary.**
 7. **Use of pen Blue/Black ink/refill only for writing book.**

SECTION - A

- | | | | |
|----|----|--|---|
| 1. | a) | Discuss following terms. | 8 |
| | | i) Zero pollution | |
| | | ii) Consumption waste | |
| | | iii) Pollution | |
| | | iv) By product waste. | |
| | b) | What are application of CFC's in industry? | 5 |

OR

- | | | | |
|----|----|--|----|
| 2. | a) | How we can prepare drinking water by any one method? | 7 |
| | b) | Discuss acid rain and cause of acid rain. | 6 |
| 3. | | What is BOD and COD? How will you determine dissolved oxygen from waste water? | 13 |

OR

- | | | | |
|----|--|--|----|
| 4. | | What are Indian standards for industrial effluents. | 13 |
| 5. | | What are characteristic of waste water? Describe chemical coagulation and flocculation with neat sketches. | 14 |

OR

- | | | | |
|----|--|--|----|
| 6. | | Describe activated carbon adsorption method for waste water treatment. What are application of activated carbon in industry? | 14 |
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SECTION – B

7. a) Draw flow chart of sludge treatment process and explain it in details. 8
b) What are sources of radioactive waste? 5

OR

8. a) Describe air floatation system with neat sketch. 6
b) Describe incineration for hazardous waste with neat sketch. 7
9. a) What are different types of electrostatic precipitator? Describe any one type with neat sketch. 8
b) Describe cyclone separator and its application in industry. 6

OR

10. a) Describe any two types of scrubbers used for reduction of air pollutant from waste. 8
b) Describe reduction of SO_x by ammonia scrubbing process. 6
11. What are the characteristics of waste from pickles industry? How will you treat waste produced from pickles industry? 13

OR

12. What are characteristics of waste from sugar industry? How will you treat waste produced from sugar industry? 13

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