

**EIGHTH SEMESTER B. TECH (CIVIL) MODEL QUESTION PAPER
(2008 SCHEME)
08.807.3 - ELECTIVE-V -INDUSTRIAL WASTE WATER MANAGEMENT**

Time: 3 Hours

Maximum marks: 100

Answer all questions

Part A

1. Explain the term stream standard and how it is monitored?
2. Explain zone settling in sedimentation
3. Discuss the effect of oxygen demanding wastes on streams and sewers.
4. The BOD of a sewage incubated for 5 days at 30°C is 125mg/l. Calculate the BOD at 20°C. Assume $k_{20}=0.10$
5. Differentiate between dissolved air floatation and dispersed air floatation
6. Explain the demineralization process of softening.
7. Explain the process of Electrodialysis.
8. What are adsorption isotherms? 5x8=40

Part B

Module I

9. Briefly discuss the effect of industrial wastes on streams.

OR

10. Describe how strength reduction of waste can be achieved in industries

MODULE II

11. Explain the different settling zones of sedimentation with neat sketches.

OR

12. Explain the principle and process of coagulation List the different coagulants used .

MODULE III

13. Briefly describe the method of treating the waste water from paper and pulp industry

OR

14. Explain the different techniques used for the removal of inorganic dissolved solids from waste water

3x20=60