



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April 2016
(2008 Scheme)**

08.807.3 : INDUSTRIAL WASTE WATER MANAGEMENT (C) (Elective – V)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

- I. a) Write a note on Industrial Waste Survey.
- b) What are the organic materials present in waste water ?
- c) The BOD of a sewage incubated for 5 days at 30°C is 125 mg/li. Calculate the BOD at 20°C, assume K_{20} as 0.1.
- d) Explain the different types of agitation used in equalising basin.
- e) Discuss the factors influencing sedimentation.
- f) Explain the demineralization process of softening.
- g) Write a note on Electrodialysis.
- h) What are adsorption isotherms ?

(8×5=40 Marks)

PART – B

Module – I

- II. a) Explain in detail the stream quality criteria for aquatic life. **20**
- OR
- b) Explain the alternate technologies for treatment of industrial waste water. **20**

Module – II

- III. a) Explain in detail about filtration in waste water treatment. **20**
- OR
- b) Derive the Streeter Phelps equation and explain the oxygen sag curve. **20**

Module – III

- IV. a) Explain the different methods of removing inorganic dissolved solids in waste water. **20**
- OR
- b) Discuss the treatment processes for distillery wastes with details. **20**