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H – 3279

Reg. No.

Name :

Eighth Semester B.Tech. Degree Examination, November 2019

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

(2008 Scheme)

Time : 3 Hours

Max. Marks : 100

PART – A

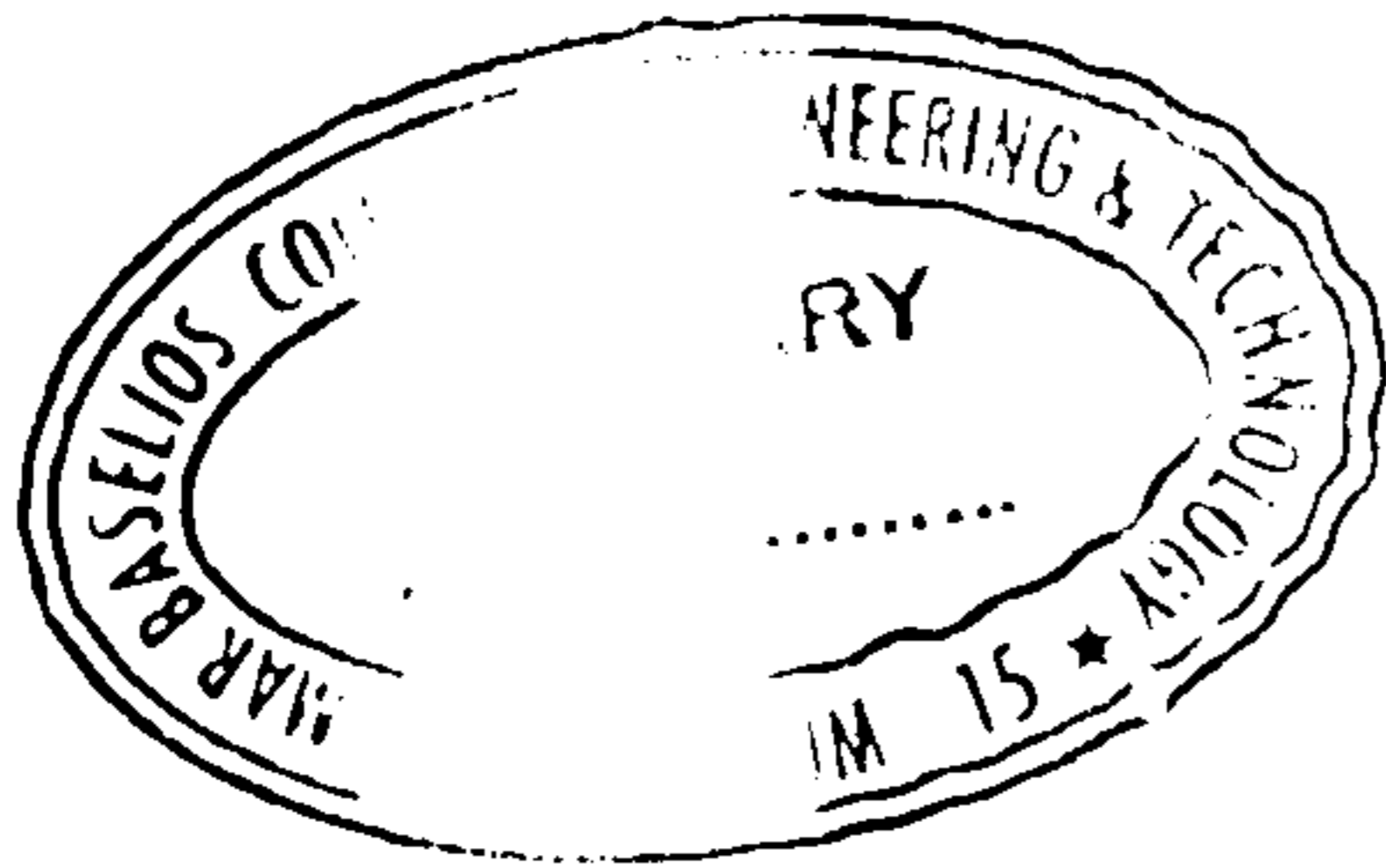
Answer **all** questions :

1. (a) Explain the effect of floating solids on receiving water.
- (b) List out the pretreatments given to an industrial waste and how the pretreatment is achieved in the waste treatment.
- (c) The BOD of a sewage incubated for 5 days at 30°C is 125 mg/l. Calculate BOD₅ at 20°C. Assume $K_{d20} = 0.10/d$.
- (d) Differentiate between dissolved air floatation and dispersed air floatation.
- (e) Explain zene setting in sedimentation.
- (f) Classify the different process of pulp making.
- (g) Write a note on adsorption isotherms.
- (h) Briefly explain membrane process of purification.

(8 × 5 = 40 Marks)

P.T.O.





PART – B

Answer **one full question** from **each Module**.

Module – I

2. Briefly explain the effect of industrial wastes on streams with examples of industrial waste. **20**

OR

3. Describe how volume reduction of waste can be achieved in industries. **20**

Module – II

4. Explain the self purification phenomenon taking place in a stream. Draw the oxygen sag curve developed by the phenomenon marking all salient points of purification. **20**

OR

5. Describe the processes of removing suspended solids from wastewater. **20**

Module – III

6. Explain the method of treatment suggested for treating pulp and paper mill waste with the help of a flow diagram. **20**

OR

7. Describe the techniques used for the removal of inorganic dissolved solids from waste water. **20**

(3 × 20 = 60 Marks)

