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Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, May 2018
(2013 Scheme)**

13.806.6 : INDUSTRIAL WASTE WATER MANAGEMENT (C)

Time : 3 Hours

Max. Marks : 100

Answer **all** questions in Part – **A** and **any one full** question from **each** Module in Part – **B**.

PART – A

1. Write the effects of industrial waste water discharged into a sewage treatment plant.
2. What is deoxygenation and septic condition ?
3. What is acidification and caustification ?
4. What is emulsion breeding technique.
5. Write the major characteristics of pulp and paper effluent. **(5×4=20 Marks)**

PART – B

Module – 1

6. Explain the process of joint treatment of raw industrial waste and partially treated effluents with municipal sewage. State its advantages and disadvantages. **20**

OR

7. Explain in detail the various waste minimisation techniques followed in industry. **20**

Module – 2

8. Explain the self purification processes in a stream and the different factors influencing it. **20**

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9. Write the effluent standards before discharged into any streams and the standards of stream before and after the sewage discharged as prescribed by Government of India. **20**

Module – 3

10. With the help of a flow diagram explain the treatment process of removal of inorganic solids and colloids from waste water. **20**

OR

11. Explain the process of removal of organic dissolved solids from the effluents. **20**

Module – 4

12. With the help of flow diagram explain the effluent treatment process for the iron and steel industry. **20**

OR

13. With the help of flow diagram explain the effluent treatment process of any food processing. **20**
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