

Roll No.

Total Pages : 3

BT-8/M-20

38224

INDUSTRIAL WASTE WATER TREATMENT

Paper-CE-406-N

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT-I

1. (a) How Industrial waste effects waste water treatment plants? 10
- (b) What are Industrial wastes/ How they differ from municipal wastes? 5
2. (a) Explain the term 'Sewerage system'. 5
- (b) What are the effects of Industrial wastes on River streams. 10

UNIT-II

3. (a) Discuss the term 'Process change' in detail. 5
- (b) How we can minimize the effects of Industrial effluent on receiving streams? 10

38224/K/1043

P. T. O.

4. Explain the following terms :
- (a) Volume Reduction
 - (b) Reuse of waste water.
 - (c) Neutrolization. 15

UNIT-III

5. Give the Industrial effluent standards for disposal into Water source.
- (a) Nitrate
 - (b) Alkalinity
 - (c) Aluminium
 - (d) BOD
 - (e) TDS. 5
6. (a) What is population equivalent? Explain the steps to calculate population equivalent. 9
- (b) Write the standards for the following properties of water before disposing industrial waste on land for irrigation.
- (i) Turbidity
 - (ii) Mercury. 6

UNIT-IV

7. Discuss the working of tannery with the help of neat sketch. 15
8. Draw the flow diagram of nitrogeons fertilizer and write its manufacturing process in detail. 15

downloaded from
StudentSuvidha.com