

Roll No. ....

Total Pages : 2

**GSM/M-20**

**1652**

**INDUSTRIAL CHEMISTRY**

Paper– II (Theory)

Time Allowed : 3 Hours]

[Maximum Marks : 40

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

**UNIT-I**

1. (a) Define acidity of water? How it is determined.  
3½
- (b) Define water pollution. Discuss the various sources of water pollution.  
4½
2. (a) What is dissolved oxygen? How it is measured in a water sample and what is the permissible limit of dissolved oxygen in drinking water?  
4½
- (b) Define hardness of water. Discuss its various types and methods of determination.  
3½

**UNIT-II**

3. (a) How does suspended impurities remove from water by primary treatment?  
3½

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- (b) What methods are used for the removal of dissolved impurities in water? Discuss it. 4½
4. (a) Write a short note on preliminary treatment of water. 3½
- (b) Discuss the secondary treatment of water. 4½

### UNIT-III

5. Write a short note on any two of the following disposal processes for solid waste management.
- (a) Compositing
- (b) Sanitary and land filling
- (c) Incineration and Pyrolysis. 8
6. Discuss the various types of solid wastes and also microbiology of solid waste and its bad effects. 8

### UNIT-IV

7. (a) Discuss the principle, construction and working of pressure manometers. 4½
- (b) Write the principle of Glass thermometer and Bimetallic thermometer. 3½
8. Discuss the principle, construction and working of radiation pyrometers and Barometers. 8