

Roll No. ....

Total Pages : 2

**CMDQ/D-23** **5098**  
**WASTE MANAGEMENT**

Paper–MES–304

Time Allowed : 3 Hours]

[Maximum Marks : 80

**Note** : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Answer briefly : 8×2=16

- (a) Pollution
- (b) Reclamation of ground water
- (c) Effluent
- (d) Biomass
- (e) Biogas
- (f) Vermin composting
- (g) Metal recovery
- (h) Plastic waste.

**UNIT–I**

2. Define Hazardous waste. Discuss its sources and management. 16

3. Write short notes on the following : 8,8

- (a) Resource recovery
- (b) Incineration.

**UNIT–II**

- 4. Explain the manufacturing process and characteristics of waste generated from Dairy Industry. Also discuss its treatment and disposal methods. 16
- 5. Discuss the properties of industrial waste. What are the characteristics and disposal methods used to treat the waste generated from Atomic Energy Plant? 16

**UNIT–III**

- 6. Discuss the methods for recovery of by-products and raw material from waste water conversion. 16
- 7. Write notes on the following 8,8
  - (a) Biomass for energy
  - (b) Agriculture Reuse of effluent.

**UNIT–IV**

- 8. Give an account of Hazardous waste (Management and Handling) Rules, 1989. 16
- 9. Discuss the provisions under Biomedical Waste (Management and Handling) Rules, 1998. 16