

Roll No.

Subject Code—6824

P. G. Diploma EXAMINATION

(Main/Re-appear)

ENVIRONMENTAL MANAGEMENT

PGDEM-04

Pollution Control & Management

Time : 3 Hours

Maximum Marks : 100

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

Unit I

1. Define the following terms : 2×10
- (i) Sedimentation
 - (ii) Coagulation
 - (iii) Wastewater

- (iv) Primary treatment
- (v) Secondary treatment
- (vi) Disinfection
- (vii) Chlorination
- (viii) Eutrofication
- (ix) Organic loading rate
- (x) Hydraulic loading rate

2. (a) Write down the flow diagram for conversion of wastewater into potable water. 10
- (b) Define activated sludge process. Enumerate the conventional activated sludge process. 10

Unit II

3. Write short notes on the following : 5×4
- (i) Ion exchange
 - (ii) Neutralisation
 - (iii) Reverse osmosis
 - (iv) Dialysis.

4. (a) What are colloids ? What are its importance to remove colloids from waste-water ? 10
- (b) What are the methods for removal of suspended solids ? Explain any one of them. 10

Unit III

5. Write notes on the following :
- (i) Solid waste management
 - (ii) Anaerobic digestion. 2×10
6. Define hazardous waste. What are the sources of these waste ? Write down the guidelines for transportation and storage of hazardous waste. 20

Unit IV

7. (a) Enumerate the strategy for noise pollution control. 10
- (b) Discuss the methods of sampling of gaseous pollutants. 10

8. Write short notes on any two of the following

- (i) Strategies for controlling air pollution
- (ii) Silencers
- (iii) Fibric Filters.

10%