

Roll No. ....

Subject Code—2096

**P.G. Diploma EXAMINATION**

**ENVIRONMENTAL MANAGEMENT**

PGDEM-04

Pollution Control and 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. (a) Define Waste Water. Why do we treat it ? Explain means of secondary treatment of waste water. 16  
(b) Write a note on screening. 4
2. Write notes on the following : 6+6+8
  - (a) Disinfection
  - (b) Coagulation
  - (c) Trickling filters.

(3-10-6-09)

P.T.O.

## Unit II

3. (a) Write down the Indian standards for disposal of industrial effluents :  $2 \times 5$
- (i) BOD
  - (ii) COD
  - (iii) Chloride
  - (iv) Nitrate
  - (v) Suspended solids.
- (b) How will you reduce the volume and strength of industrial wastes ?  $10$
4. Write notes on the following :  $4 \times 5$
- (a) Equalization of wastes
  - (b) Neutralization
  - (c) Ion Exchange
  - (d) Process for removal of suspended solids.

## Unit III

5. (a) Define and categorise different types of solid wastes. Write down the sources of different types of solid waste.  $10$

- (b) Write down different elements of SWM. Describe SWM in brief.  $10$

6. Write notes on the following :  $6+8+6$
- (a) Disposal of solid wastes
  - (b) Incineration
  - (c) Anaerobic digestion.

## Unit IV

7. How will you monitor ambient air quality ? Describe the methods used for prevention and control of air pollution.  $20$
8. Write notes on the following :  $2 \times 10$
- (a) Fabric filters
  - (b) Electrostatic precipitators.