

Jan-2007

**Subject Code—5840-X**  
**P. G. Diploma EXAMINATION**

(Re-appear)

**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. Give an account of the various processes involved in the primary and secondary treatment of waste water. What is the objective of each of these treatments ? 10,6

(2-29)

**P.T.O.**

2. Write notes on the following :
- (a) Tertiary treatment
  - (b) Disinfection of waste water
  - (c) Flocculants. 6,5,5.

### Unit II

3. Write notes on the following :
- (a) Neutralization and equalization of industrial waste water.
  - (b) Reduction of volume and strength of industrial waste water. 8,8
4. Briefly describe the various methods for the removal of the following from industrial waste water : 5,5,6
- (a) Suspended solids
  - (b) Colloidal solids
  - (c) Dissolved organic and inorganic salts.

### Unit III

5. (a) What is solid waste ? What are the major problems with the disposal of solid wastes ? 4,4
- (b) How can energy be generated from solid wastes ? 8

6. (a) What is solid waste management ? What are the problems associated with the management of solid wastes ? 4,4
- (b) How can solid waste be converted into useful products ? 8

### Unit IV

7. (a) Write notes on the following :
- (i) Electrostatic precipitator
  - (ii) Catalytic converter. 4,4
- (b) Write notes on the following :
- (i) Noise control strategies
  - (ii) Ambient air quality monitoring. 4,4
8. (a) What are the various measures to control/minimize vehicular pollution ? 8
- (b) Write notes on the following :
- (i) Silent zone
  - (ii) Fabric filters
  - (iii) Silencers. 2,3,3