

2054

B.A./B.Sc. (General) Sixth Semester
Industrial Chemistry
Paper - B: Waste Recycling

Time allowed: 3 Hours

Max. Marks: 75

NOTE: Attempt five questions in all, including Question No. 9 (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

X-X-X

UNIT-I

1. Write complete notes on the following.

- (a) Flocculation
- (b) Incineration
- (c) Solid waste disposal

(5,5,5)

2. Discuss in detail physical and chemical treatment techniques used for waste water treatment.

(15)

UNIT-II

3. Discuss the following in detail.

- (a) Thermal power station
- (b) Oil refineries

(7,8)

4. Write notes on the following.

- (a) Reverse osmosis
- (b) Reuse of cooling water
- (c) Activated carbon adsorption

(5,5,5)

UNIT-III

5. Discuss the following in detail.

- (a) Trickle filters
- (b) Microbial degradations

(8,7)

6. Explain the following.

- (a) Electrostatic precipitation
- (b) Bag filters

(7,8)

UNIT-IV

7. Write complete notes on the following.

- (a) Oils, fats and soap industries
- (b) Slaughter houses

(8,7)

8. (a) Discuss briefly Iron and steel plants.

(b) Write a note on Tanneries.

(9,6)

UNIT-V

9. Attempt the following.

- (a) Coagulation
- (b) Osmosis
- (c) Economics of recycling of waste
- (d) Activated sludge process

(3,4,4,4)

X-X-X