

2055

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. IX (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) Sedimentation
- (c) Fuel palletization

(5,5,5)

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

(15)

UNIT-II

3. Write notes on the following.

- (a) Electrodialysis
- (b) Centrifugation
- (c) Filtration

(5,5,5)

4. Discuss the following in detail.

- (a) Advanced oxidation processes
- (b) Oil refineries

(7,8)

UNIT-III

5. Discuss the following in detail.

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

(7,8)

6. Explain the following.

- (a) Bag filters
- (b) Wet/dry grid arrestors

(7,8)

P.T.O.

(2)

UNIT-IV

7. Write complete notes on the following.

- (a) Heavy chemicals
- (b) Slaughter houses

(8,7)

8. (a) Discuss economics of recycling of waste.

- (b) Discuss briefly Iron and steel plants.

(6,9)

UNIT-V

9. Attempt the following in brief.

- (a) Incineration
- (b) Coagulation
- (c) Activated sludge process
- (d) Microbial degradations

(4,4,4,3)

x-x-x