

2063

B.A./B.Sc.(General)-6th 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.

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UNIT – I

- I. Explain in detail chemical and biological treatment techniques used for waste water treatment. (15)
- II. Write complete notes on the following:-
- (a) Fuel palletization
 - (b) Flocculation
 - (c) Soil conditioning (3×5)

UNIT – II

- III. Write notes on the following: -
- (a) Electrodialysis
 - (b) Centrifugation
 - (c) Filtration (3×5)
- IV. Discuss the following in detail: -
- (a) Advanced oxidation processes
 - (b) Oil refineries (7+8)

UNIT – III

- V. Discuss in detail the following: -
- (a) Electrostatic precipitation
 - (b) Trickle filters (8+7)
- VI. Explain the following: -
- (a) Bag filters
 - (b) Wet/dry grid arrestors (7+8)

P.T.O.

(2)

UNIT-IV

VII. Write complete notes on the following: -

- (a) Slaughter houses
- (b) Thermal power stations (7+8)

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

- (b) Write in brief about Iron and steel plants. (6+9)

UNIT – V

IX. Attempt the following: -

- (a) Brief note on Incineration
- (b) Coagulation
- (c) Activated sludge process
- (d) Tanneries (4+4+4+3)

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