Exam.Code:0006 Sub. Code: 0581

1058

B.A./B.Sc. (General) Sixth Semester Industrial Chemistry Paper – B [Opt. (iv)]: Waste Recycling

Time allowed: 3 Hours

Max. Marks: 75

(5x3)

(7,8)

(3x5) P.T.C

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

- I. Attempt the following:
 - a) Incineration
 - b) Reuse of cooling water
 - c) Define oil refineries and significance
 - d) Osmosis reverse process
 - e) Economics of waste recycling

UNIT-I

- II. Write a short note on:
 - a) Removal of solid contaminants from water
 - b) Limitation of raw material resources and waste elimination. (7,8)
- III. Discussed in detail biological and chemical treatment of waste water treatment. (15)
 - UNIT II
- IV. Discuss in detail:
 - a) Ion exchange process
 - b) Activated carbon adsorption
- V. How the water is treated and reused in thermal power plants and oil refineries? Discuss separately. (15)

UNIT - III

- VI.a) Discuss in detail activated sludge process.b) Discuss the characteristic and management of dyestuff.(7,8)
- VII. Write a short note on:
 - a) Recovery of SO₂
 - b) Electrostatic precipitation
 - c) Dry grid arresters

(7,8)

UNIT-IV

(2)

ALL AND SC (Constant) Six

VIII. a) Fermentation process with its uses.

- b) Waste water treatment in slaughter houses.
- IX. a) Explain water treatment process for the effluent of electroplating industry.b) Describe water treatment process for the effluent of heavy metal industry. (7,8)

x-*x*-*x*