DF-1472
M. Sc. (Sem. III) (Environmental Chemistry)
Examination
March / April – 2016
Paper - III : Waste, Waste Management,
Environmental Biology-I

Time : 3 Hours] [Total Marks : 70

Instructions :

(1)

(2) Figures to the right indicate full marks of the questions.

1 Answer any three of the following. 18

(a) Write a note on hazardous waste in anthosphere.

(b) Describe toxic and corrosive substance as hazardous wastes.

(c) Describe flammable and combustible substance as hazardous wastes.

(d) Enlist and describe the sources of wastes polluting the water and air.

2 Answer any three of the following. 18

(a) Describe bio treatment by sequencing batch reactors.

(b) Describe the sterilization and incineration method for bio-medical waste.

(c) Compare the solidification and stabilization?

(d) Explain the transportation of bio-medical waste.
3 Answer any **three** of the following. 18

(a) How the fertilizer industries pollute the atmosphere? Explain in brief.

(b) Give flowchart and discuss in brief the treatment given to effluent of pharmaceutical industries.

(c) Explain the characteristics and schematic diagram of the treatment given to effluent of pulp and paper industries.

(d) How will you control SO\(_2\) and particulate emissions in thermal power plants?

4 Answer any **three** of the following. 16

(a) How the recycling processes are used in waste treatment technology.

(b) Write short note on autoclaving and thermal treatment.

(c) Write a note on environmental chemistry of hazardous wastes.

(d) "Particulate matter is a major concern in cement industries." Justify.