

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2289895

Roll No.

B.TECH.

**Regular Theory Examianation (Odd Sem-VII), 2016-17
INDUSTRIAL POLLUTION ABATEMENT &
WASTE MANAGEMENT**

Time : 3 Hours

Max. Marks : 100

SECTION - A

1. Attempt all parts. Write answer of each part in short.
(10×2=20)
- Define biochemical oxygen Demand.
 - What is Electrostatic Precipitation?
 - Define Hazardous Waste.
 - Distinguish adsorption from absorption.
 - What are the objectives of waste water treatment?
 - Define turbidity.
 - What are the objectives of environmental protection act?

NCH - 023

- h) What are the various treatments and control methods for water pollution?
- i) What are the deleterious effects produced on the human body when exposed to high level of noise?
- j) Define fugitive emission.

SECTION - B

2. Attempt any five questions from this section.

(5×10=50)

- a) Write the major air pollutants from different type of industries. Also write the adverse effect of these air pollutants on the human and environmental health.
- b) Define the term pollution, pollutants and contaminants, particulates, primary and secondary pollutants.
- c) Give Environmental Acts and Regulations in India.
- d) What is water pollution? Explain methodology of waste water treatment.
- e) Discuss Aerobic and Non Aerobic treatment of waste water.
- f) Discuss in detail trickling filter.
- g) Explain about fabric filter and electrostatic precipitators with neat sketches.

NCH - 023

- h) What do you mean by activated sludge process?

SECTION - C

Note: Attempt any two questions from this section

(2×15=30)

- 3. Write the different pollution control techniques adapted in the treatment of effluents in the sugar or pulp and paper industries.
- 4. Write in detail the identification, characterization, classification, collection and treatment of hazardous wastes in India.
- 5. Write the standards for the fertilizer effluent. Also discuss the treatment and disposal method of fertilizer effluent.