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Register Number:

Name of the Candidate:

B.Sc. DEGREE EXAMINATION December 2014

(CONSTRUCTION MANAGEMENT)

(FIFTH SEMESTER)

540: INDUSTRIAL WASTE AND WASTE WATER MANAGEMENT

Time: Three hours

Maximum: 75 marks

Answer ALL questions

(5 × 15 = 75)

UNIT-I

1. a) Write short notes on need for advanced waste water treatment.
b) Give a brief account on removal of dissolved organics and biological constituents in food processing industry.

(OR)

2. a) Explain in detail the biological processes involved in sludge digestion of high COD waste water.
b) Write a detailed note on upgrading the waste water treatment plant.

UNIT-II

3. a) Write a descriptive note on flow equalization.
b) Write down the applications of chemical oxidation in industrial wastewater treatment and disposal.

(OR)

4. Describe the procedure and steps involved in reduction of volume of waste generated by various industries.

UNIT-III

5. Describe in detail the various stages of self-purification stating the characteristics of each stage.

(OR)

6. Explain the various sources and characteristics of industrial hazardous waste what are the effects of disposal of industrial hazardous waste into oceans.

UNIT-IV

7. a) Enumerate the treatment methods to be adopted for cotton textile industry.
b) Write down the manufacturing process of tannery industry.

(OR)

8. a) Explain the various sources and characteristics of dairy industry.
b) How would you manage the toxic waste?

UNIT-V

9. a) How are the liquid waste are treated from an oil refinery?
b) Explain the different sources of pollution from an thermal power plant.

(OR)

10. a) Discuss the safety and precaution measures while operating the CETP.
b) What are the treatment methods adopted for sugar mills?
