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**7753**

Register Number:

Name of the Candidate:

**P.G.DIPLOMA EXAMINATION, December 2014**

**(ENVIRONMENTAL MANAGEMENT)**

**110. WASTE WATER MANAGEMENT**

Time: Three hours

Maximum: 100 marks

*Answer ALL questions*

**UNIT-I**

1. List out the factors which are to be considered in the choice of source of water and explain them. (20)

(OR)

2. Write short notes on the following: (20)
- i) Per capita demand
  - ii) Wastewater
  - iii) Domestic requirement of water
  - iv) Sewage
  - v) Refuse

**UNIT-II**

3. Name the different chemical characteristics of waste water and explain them. (20)

(OR)

4. Differentiate between oxygen demand and biochemical oxygen demand. (20)
- i) How BOD is determined?
  - ii) What are the limitations of BOD test?

**UNIT-III**

5. Explain activated sludge process with a flow diagram. (20)

(OR)

6. Write about sludge drying and sludge disposal. (20)

**UNIT-IV**

7. Define sludge digestion and explain the process of aerobic digestion. (20)

(OR)

8. Name the different types of digesters. Explain conventional or standard-rate digesters with a neat sketch. (20)

**UNIT-V**

9. List out the standards for treated effluent for disposal in to different components of environment. (20)

(OR)

10. Write short notes on: (20)
- i) Reverse osmosis for treated effluent.
  - ii) Land application of treated effluent
  - iii) Grit chamber
  - iv) Eutrophication.

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