CE 222 (R-22)

Total No. of Questions : 10] [Total No.of Pages : 02

II/IV B. Tech. DEGREE EXAMINATIONS, AUGUST - 2024

Second Semester

CIVIL ENGINEERING

ENVIRONMENTAL ENGINEERING

Time : **Three Hours** Maximum : **70** Marks

Answer ONE Question from each Unit. 5x14=70 M

All Questions carry equal marks.

UNIT - I

1. a) Explain the Role of Environment Engineers in detail.

   b) Describe Fluctuations in demand in detail.

(OR)

2. a) How the Quality of water required for a town is estimated while designing the water supply scheme for the same.

   b) Explain the factors affecting per capita consumption in detail.

UNIT - II

3. Explain Mass Curve Analysis in detail.

(OR)

4. List and explain the classification of pumps with example.

UNIT - III

5. Discuss in detail about Standards in portable water like WHO and BIS Comparison.

(OR)

6. Write various methods of purification of water in detail.

UNIT - IV

7. a) Explain the detailed construction and operation of filters in detail.

   b) Explain about the Theory of Disinfection in detail.

P.T.O.

(OR)

8. a) Discuss about Troubles in Rapid Sand Filters in detail.

   b) Explain in detail about Softening of Water.

UNIT - V

9. a) Explain in detail about Balancing Reservoirs in Distribution System.

   b) How can we use water meters in water supply for building.

(OR)

10. a) Explain Service Reservoirs in Distributed System.

    b) Explain Fire Hydrants in Pipes.