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Name of the Candidate:

B.Sc. DEGREE EXAMINATION, 2013

(CONSTRUCTION MANAGEMENT)

(SECOND SEMESTER)

230 : PUBLIC HEALTH ENGINEERING

December] [Time : 3 Hours

Maximum : 75 Marks

Answer ONE full question from each unit **(5 × 15 = 75)**

UNIT- I

1. What is an 'Intake structure'? Enumerate the various types of intake and discuss in detail any two of them.

(OR)

2. Why are water supplies to be protected? Enumerate the points to be included in a report for a water supply scheme.

UNIT- II

3. With neat sketch explain different feeding arrangements for Coagulation. How will you determine the optimum dosage of coagulated?

(OR)

4. Enumerate and discuss briefly the various methods which are adopted collectively for treating public water supplies drawn from a perennial river.

UNIT- III

5. Write down the design procedure for Hard cross and equivalent pipe method.

(OR)

6. Discuss in detail the slow sand filter with reference to their essential parts, working and cleaning, rate of filtration and efficiency.

UNIT- IV

7. Write short notes on

a) Manhole b) Inverted siphon c) Catch basins

(OR)

8. What are the factors to be considered before making selection for the material for sewers? Discuss briefly sewers of different materials.

UNIT- V

9. Explain the function of trickling filter ad oxidation pond.

(OR)

10. What is the theory of a septic tank? What are its design aspects?

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