Roll No. Total No. of Pages: 02 Total No. of Questions: 09

B.Tech.(CE) (Sem.-5th)

ENVIRONMENTAL ENGINEERING-I

Subject Code: CE-309 Paper ID: [A0616]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions

SECTION-A

I. Answer briefly:

- i) Define design period.
- ii) What are different underground sources of water supply?
- iii) Enlist different types of water demand.
- iv) Differentiate between wet intake tower and dry intake tower.
- v) What are facultative bacteria? Explain.
- vi) What are the various physical characteristics those need to be examined for ascertaining the quality of drinking water?
- vii) Draw a neat sketch of grid iron system used for the distribution of water supply.
- viii) What is pH range required for using alum as a coagulant?
- ix) Discuss briefly water aeration
- x) What are different types of distribution reservoir

SECTION

- 2. What are different types of well screen
- 3. Describe briefly the various constitue
- 4. What is meant by disinfection in treati importance?
- 5. What is a mass curve? How it is prepared
- 6. Describe an artesian well: How it is fo

SECTION

7. Given the following data, calculat 2000 A.D. by incremental increase me

Year	1880	1890	1900
Population	25000	27500	34100

- 8. What are common impurities found explain their effects upon quality of wa
- 9. Design sedimentation tank with cor 60000 persons with a daily per capi Make suitable assumptions where need