

671

B. Tech. EXAMINATION, 2020

(Sixth Semester)

(Old Scheme)

(Re-appear Only)

CE

CE302

Environmental Engineering–I

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all. All questions carry equal marks.

1. (a) Write the process of development of wells. **10**
(b) Explain the surface and ground sources of water. **10**
2. (a) Mention the chemical parameters of water. Write the procedure to determine their values. **10**
(b) Classify water bodies as sources of water. **10**
3. (a) What do you mean by Population Forecasting ? Explain any *two* methods. **10**
(b) Write the working of Dry Intakes. **10**
4. (a) Explain the various types of supply network. **10**
(b) How do water supply distribution operation and maintenance take place ? Describe. **10**

5. (a) Discuss about the centrifugal pumps for water supply. 10
(b) Explain the operating curves of pumps. 10
6. (a) Describe the various types of coagulant used to treat water. 10
(b) Distinguish between slow sand and rapid sand filters. 10
7. (a) Define Softening of Water. Discuss about zeolite process. 10
(b) What are desalination ? Describe. 10
8. (a) Mention and explain about small scale purification methods of water. 10
(b) Write short notes on the following : 10
(i) RO System
(ii) Water Fixtures.