

Roll No

CE-4003(CBGS)

B.E. IV Semester

Examination, November 2019

Choice Based Grading System (CBGS)

Water Supply and Waste Water Engineering - I

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions
ii) All questions carry equal marks.
iii) Assume missing data suitably.

1. a) Explain the different methods of forecasting future population of a city for which a water supply scheme is to be planned. 7
b) Write a short note on provision for fire demand in water supply. 7
2. What is a river intake? What are the factors which govern the location of a intake structure on a river? 14
3. a) Explain the sedimentation process used in a water treatment plant. 7
b) Explain about the water borne diseases. 7
4. a) Enumerate the various characteristics of sewage. 7
b) Write a detailed note on pump house and its importance. 7

5. a) Write a detailed on storage capacity and its significance. 7
b) Explain about the design of sewers. 7
6. a) What are oxidations ponds? What is the principle involved in treatment? 7
b) Explain the biological treatment methods for waste water. 7
7. a) Explain the natural methods of waste water disposal. 7
b) Describe one pipe and two pipe system of plumbing. 7
8. a) Briefly explain about the maintenance of distribution system of water sewage. 7
b) Write a short note on BOD and COD methods. 7
