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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
 (AUTONOMOUS)
B.Tech IV Year I Semester Supplementary Examinations November-2020
ENVIRONMENTAL ENGINEERING
 (Civil Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain the factor affecting the per capita demand. 6M
 b Explain the variation in the demand. 6M

OR

- 2 a Explain any one method of forecasting the population of town. 4M
 b Explain the sources of water. 8M

UNIT-II

- 3 a What are the methods of removal of Hardness? 4M
 b Explain lime soda and zeolite process with advantages and disadvantages. 8M

OR

- 4 a List out the requirements of good disinfectant. 6M
 b What are the differences of slow sand filter and rapid sand filter? 6M

UNIT-III

- 5 a Compare between conservancy system and water carriage system 8M
 b Explain the causes of pipe corrosion. 4M

OR

- 6 a Write a note on different types of sewer. 6M
 b What should be the characteristics of materials to be used for sewers? 6M

UNIT-IV

- 7 Draw the schematic diagram of typical sewage treatment plant. 12M

OR

- 8 Explain, with the help of neat sketch, the construction and working of a conventional tickling filter. 12M

UNIT-V

- 9 a Explain the factors affecting of sludge digestion. 6M
 b What do you understand by sludge thickening? 6M

OR

- 10 Design a septic tank for 200 persons assuming water supply as 120 LPCD. 12M

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