R19

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year II Semester Regular Examinations August-2022
ENVIRONMENTAL ENGINEERING
(Civil Engineering)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1   List out the various methods of population forecasting and explain any two   L2   12M
    methods in detail.

OR

2   The populations of 5 decades from 1960 to 2000 are given below in table. Find   L3   12M
    out the population 2010, 2020 & 2030 beyond the last known decade.
    By (i) Arithmetic increase method   (ii) Geometrical method

Year	1960	1970	1980	1990	2000
Population	25000	28000	34000	42000	47000

UNIT-II

3   What are water borne diseases? Discuss its causes and preventive measures.   L2   12M

OR

4   With a sketch, Explain the principle of working of rapid sand filter.   L2   12M

UNIT-III

5   With neat sketch, explain the different types of layouts of water distribution   L2   12M
    system.

OR

6   Compare the three systems of sewerage.   L2   12M

UNIT-IV

7   Define activated sludge process and explain their operation including advantages   L2   12M
    and disadvantages.

OR

8   Explain with the help of neat sketch, the construction and working of trickling   L2   12M
    filter.

UNIT-V

9   Explain with a sketch, the method of sludge digestion in a digestion tank.   L2   12M

OR

10 a What is soak pit and why it is necessary?   L1   6M
    b With neat sketch, explain the process of dispersion trench.   L2   6M

*** END ***