

1006**Code : 15CE-32T**Register
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III Semester Diploma Examination, April/May-2019**WATER SUPPLY ENGINEERING****Time : 3 Hours]****[Max. Marks : 100**

Instructions : (i) Answer any six questions from Part - A.
(ii) Answer any seven questions from Part - B.

Published By:**PART - A**

1. Describe how animals depend on plants. 5
2. Explain the necessity of water supply. 5
3. List the impurities present in water. 5
4. What are the advantages of using alum as a coagulant ? 5
5. Distinguish intermittent system with continuous system of water supply. 5
6. What are the advantages and disadvantages of dead end method of distribution system ? 5
7. Distinguish between HDPE pipes and CI pipes. 5
8. Explain briefly the rural water supply systems. 5
9. What are the effects of water pollution ? 5

PART - B

10. The following data have been observed from the census department : 10

Sl. No.	Year	Population
1	1975	15000
2	1985	20500
3	1995	27000
4	2005	35500
5	2015	45000

Estimate the population for the year 2025 and 2035 by Geometrical Increase Method.

11. What are the general requirements of a layout of water supply arrangement in buildings ? 10
12. Explain with a neat sketch the river intake. 10
13. Explain briefly with neat sketch the continuous flow type sedimentation tank. 10
14. Explain with sketch the construction and working of Rapid Sand Filter. 10
15. Explain different forms of Chlorination. 10
16. Explain with sketches the following systems of lay-outs in distribution system :
(i) Grid iron system
(ii) Ring system 10
17. Sketch the constructional details and uses of following water-supply fittings : 10
(i) Water main
(ii) Service pipe
(iii) Stop cock
(iv) Ferrule
18. Explain the method of Rain water harvesting. 10
19. Explain the prevention and control of water pollution. 10