

**1028****Code : 15CE32T***Register  
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**III Semester Diploma Examination, April/May-2017****WATER SUPPLY ENGINEERING****Time : 3 Hours ]****[ Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part-A. Each question carries **5** marks.  
(ii) Answer any **seven** questions from Part-B. Each question carries **10** marks.

**PART – A**

1. State the factors affecting per capita demand. **5**
2. Describe pipe corrosion and its effects. **5**
3. State any five BIS standards for drinking water. **5**
4. Describe Break point chlorination. **5**
5. Distinguish intermittent system, with continuous system of water supply. **5**
6. Explain the functions of a sluice valve with a sketch. **5**
7. Distinguish between HDP pipe & CI pipe. **5**
8. What are benefits of rain water harvesting ? **5**
9. What are the effects of water pollution ? **5**

**PART – B**

10. (a) List the important points to be considered for a water supply scheme. **5**  
(b) List the sources of water. **5**
11. The following data have been observed from census department. **10**

Sl. No.	Year	Population
1	1921	25000
2	1931	33500
3	1941	40500
4	1951	52000
5	1961	61000
6	1971	80000

Estimate the population for the year 1981 & 1991 by Arithmetical increase method.

12. Explain with a neat sketch the construction of a bored well. 10
  13. Distinguish between underground service reservoirs and overhead service reservoirs. 10
  14. Explain with a sketch the function, constructional details, and working operations of a flash mixer. 10
  15. Explain physical tests conducted in water & their significance. 10
  16. Sketch and explain a surface reservoir. 10
  17. Sketch the constructional details and uses of following water supply fittings : 10
    - (i) Ferrule
    - (ii) Goose neck
  18. Explain rainwater harvesting and its benefits. 10
  19. Explain the prevention and control of water pollution. 10
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