

24289

**B.Tech. 5th Semester(Civil Engg.) Examination,**

**December-2012**

**WATER SUPPLY TREATMENT**

**Paper-CE-305-F**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Attempt any five questions out of 9 questions.*

*Q. No. 1 is compulsory. Each question carries equal marks.*

1. (a) What is the meaning of Population Forecasting ?  
(b) Explain different type of water quality standards.  
(c) What is water softening ?  
(d) Explain the water conveyance system.  
(e) What is the water Radial distribution system ?  
5×4=20
2. Describe the quality and quantity of surface and ground water sources. How to select the source of water supply ? 20
3. (a) Explain the type of impurities in water and their sanitary significance. 10  
(b) Explain the objectives of water treatment. 10
4. Describe the advanced methods of water treatment. 20
5. What is water conveyance system ? Explain O & M for conveyance system. 20

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6. (a) What is the Pumping System ? Explain different types of Pumping system. 10
- (b) What are the design aspects of Rapid Sand Filtration unit ? 10
7. What is the Distribution Reservoir ? Explain the functions and determination of storage capacity. 20
8. Explain the Dead End Distribution system. Describe the merits and demerits of this system. 20
9. Write short note on any *two* :
- (i) Water Demand
- (ii) Disinfection Principles
- (iii) Water Distribution Network.  $10 \times 2 = 20$