

BE - VII<sup>th</sup> Semester Examination, 2018

Subject: Env. Engg.

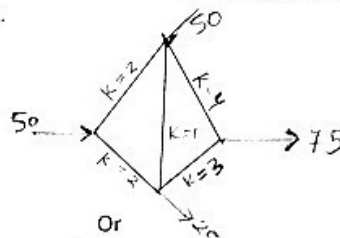
Paper: CE-701

EG-310

Time : 3 Hours

Maximum Marks -60

- Q.1. (a) Define the ground and surface water resources. 6  
(b) Define water requirement for various uses. 6  
Or  
(a) Write short note on forecast of population. 6  
(b) What do you understand by fluctuation in water Demand. 6  
Q.2. (a) Describe the Bacteriological and chemical analysis of water. 6  
Or  
(a) Describe the water standards in detail for different uses. 6  
(b) Describe the water borne diseases. 6  
Q.3. (a) Explain the miscellaneous methods of water treatment in detail. 6  
(b) Explain the modern trends in sedimentation and filtration. 6  
Or  
(a) Describe the filtration and Disinfection. 6  
(b) Describe the coagulation and anaerobic treatment process. 6  
Q.4. Determine the distribution of flow in the pipe network as shown in fig. By using Hardy-Cross method. 12



- Or  
(a) Explain briefly the general methods of distribution of water employed in municipal water supply schemes. 6  
(b) Write short note on causes of water wastes, its detection and prevention. 6  
Q.5. (a) Explain financing and management of water supply project. 6  
(b) Describe the different sanitary appliance and their operation with neat sketches. 6  
Or  
Write short note on any three of the following : 12  
(i) Rural water supply schemes (ii) Building drainage system  
(iii) Water pollution control (iv) Water carriage system