

Water Supply Systems

Important questions

UNIT-I

1. Factors effecting per capita demand
2. Various types of water demand - Domestic water demand
3. Fire demand
4. Transportation by water
5. Dilution of waste water
6. Recreational water

UNIT-II

1. Difference between surface and subsurface of water regarding quality and quantity
2. Reverse osmosis
3. Methods of recharging of aquifers
4. Short note on surface sources - Rivers and lakes
5. Ground water sources- springs, infiltration wells and infiltration galleries

UNIT-III

1. Requirements of protected water
2. Grey water sources and treatment methods
3. Black water sources and treatment methods
4. Water borne diseases
5. Sewage irrigation methods and problems

UNIT-IV

1. Classification of distribution systems based on method of distribution/topography – gravity, pumping and dual systems
2. Explain lay outs of distribution systems with neat sketches
3. Types of valves with neat sketches
4. Types of Fire hydrants with neat sketches
5. Service Reservoirs

UNIT-V

1. Characteristics of industrial waste water

2. Location of industry with respective water sources
3. Manufacturing process with flow charts and treatment methods of waste water from sugar industry
4. Manufacturing process with flow charts and treatment methods of waste water from dairy industry
5. Manufacturing process with flow charts and treatment methods of waste water from textile industry
6. Manufacturing process with flow charts and treatment methods of waste water from tannery industry