

SECTION-B

2. Discuss about :
 - i) Slow sand filtration
 - ii) Disinfection of water
3. A 30 cm gravity well is being pumped at a rate of 1,200 lpm. Measurements made in nearby test wells 5 m and 25 m away yielded drawdown 4.5 m and 1.0 m, respectively. The distance of the water table above the bottom of the well is 80 m. Determine (i) the drawdown in the well during pumping (ii) the specific yield of the well.
4. List the suitability and criteria for choosing different types of pumps used in water supply pumps.
5. What are the factors which induce corrosion of water supply pipes? Discuss the various corrective treatments to prevent it.
6. Clearly differentiate between continuous and intermittent supply systems of water. Compare the merits and demerits.

SECTION-C

7. What is a balancing tank? State its importance in the distribution system. Explain how the capacity of a balancing tank is determined, when pumping is done between 6 am and 6 pm, using mass curve method.
8.
 - a) What are the common impurities found in natural water and explain its effect on the quality?
 - b) Distinguish clearly between water quality criteria and standards. Critically examine the use of MPN as bacteriological water quality standard.
9. Write notes on :
 - i) Infiltration galleries and wells
 - ii) Economical diameter of rising mains