

**Bachelor of Engineering**  
**Fourth Semester Main Examination, June-2021**  
**Water Supply & Waste Water Engineering-I [CE402T]**  
**Branch-Civil**

**Time: 3:00 Hrs**

**Max Marks 70**

**Note: Attempt any five questions. All questions carry equal marks.**

- Q.1 (a) Discuss "Logistic curve method" for forecasting population.  
(b) What do you understand by water demand? Explain "Per capita Demand".
- Q.2 (a) Write down the various formulae used for calculating fire demand.  
(b) In two periods each of 20 years a city has grown from 40000 to 160000 and then 280000. Determine the saturation population and the expected population after the next 20 years.
- Q.3 (a) What are intakes? What are important factors which govern the selection of site of an intake?  
(b) What are the common impurities found in natural sources of water? Explain their effects upon its quality
- Q.4 (a) Why are pressure pipes most commonly used for conveying water from distant surfaces to the town of supply.  
(b) State the comparative merits and demerits of steel and concrete material used in conveyance of water.
- Q.5 (a) How you can detect and prevent losses in water supply distribution system.  
(b) Explain graphical method of calculating capacity and height of a service reservoir.
- Q.6 (a) Enlist various valves and appurtenances used in a water supply scheme.  
(b) Explain the analysis of series and parallel network of pipe with appropriate example.
- Q.7 (a) Which type of force is predominant in case of design of sewer pipes? Explain.  
(b) Distinguish between fresh sewage, stale sewage and septic sewage
- Q.8 (a) Describe various shapes of sewer with their merits and demerits.  
(b) Describe the fluctuation per day in flow of sewage of a city. What are its effects on the design of sewer?

# Waste Water Engineering Question Paper

**Liverpool Engineering Society**



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web q14 state the law of refraction of light that defines the refractive index of a medium with respect to the other express it mathematically how is the refractive index of any medium a with respect to a medium b related to the speed of propagation of light in two media a and b state the name of this constant

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web solution answer 26 3o 2 as light travels from air into water the angle of refraction is 25 0 to the normal find the angle of incidence solution answer 34 2o 3 light in air enters a diamond facet at 45 0 what is the angle of refraction solution answer

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web problem 1 light travels through a vacuum at a speed of  $2.998 \times 10^8$  m/s determine the speed of light in the following media a water  $n = 1.333$  b crown glass  $n = 1.52$  c cubic zirconia  $n = 2.16$  d diamond  $n = 2.419$  audio guided solution show answer  
problem 2 consider the three diagrams below