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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
T1- EXAMINATION (September - 2018)
B. Tech. (V- SEM.)

COURSE CODE: 10B11CE514 MAX. MARKS: 15
COURSE NAME: Water Supply Engineering
COURSE CREDIT: 4 MAX. TIME: 1 HRS

Note: Attempt all questions. Assume suitable data if required. Carrying of mobile phone during examinations will be treated as case of unfair means

1. A small town has a population of 3, 00,000 has a demand of 175 lpcd. Determine (a) the different types of demands including the total demand and (b) the flow for the different components of the distribution system **(3)**.

2. Discuss the factors governing the location of setting of an intake structure. In this context, discuss the advantages and disadvantages associated with setting up of an impounded reservoir. **(3)**

3 What are the expected outcomes from an effective planning process for a water supply scheme? **(2)**.

4. Estimate the population of a town for the year 2015, 2020 and 2030 by (a) Arithmetic Average Method (b) Geometric Increase Method and (c) Incremental Increase Method **(7)**

Year	1950	1960	1970	1980	1990	2000	2010
Population	30000	32500	39100	46500	52050	59500	66000