Dr Rajiv

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
T1- EXAMINATION (September - 2017)
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. With a neat flow-sheet, discuss how you will plan for setting up a new water treatment scheme for a city. Also explain, the differences you will encounter if you are to setup a second treatment plant for a city but the supply source of the raw water is different from the existing one. **(3.5)**

2. *The logistic-curve method utilizes different methods of population projections in its analysis.* With a neat sketch, justify this statement. **(3)**

3 For three consecutive decades the population of a town was 90,000; 1, 50,000; and 1, 80,000 respectively. Determine (a) saturation population (b) the population in the next *two* decade using *decreased rate of growth method* **(2+3)**.

4. With a neat sketch briefly explain '*Thermal Stratification in Impounded Reservoirs*' **(3.5)**

CE-2, BT