JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2026

B.Tech-V Semester (CE)

COURSE CODE (CREDITS):25B11CE512 (03) MAX. MARKS: 15

COURSE NAME: WATER SUPPLY ENGINEERING

COURSE INSTRUCTOR: NIRAJ SINGH PARIHAR MAX. TIME: 1 Hour

Note:*(a)All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is allowed

<table>
<tr><th>Q.No</th><th>Question</th><th>CO</th><th>Marks</th></tr>
<tr><td>Q1</td><td>Give a brief description of the schemes launched by GOI in the recent past for improvement in the domestic and ground water supply in India.</td><td>CO1</td><td>5</td></tr>
<tr><td>Q2</td><td>The census data for a city from 1981 to 2011 is given below.Estimate the projected population for the years 2021 and 2031 using:

a. Geometrical Increase Method
b. Incremental Increase Method

<table><tr><th>Year</th><th>Population</th></tr><tr><td>1981</td><td>80,000</td></tr><tr><td>1991</td><td>120,000</td></tr><tr><td>2001</td><td>168,000</td></tr><tr><td>2011</td><td>228,000</td></tr></table></td><td>CO1</td><td>6</td></tr>
<tr><td>Q3</td><td>Differentiate between the surface and the ground water resources with respect to their water quality characteristics. Also enlist some of the common water borne diseases and the category of pathogens responsible for the same.</td><td>CO1,2</td><td>4</td></tr>
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