JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2026

BCA-III Semester

COURSE CODE (CREDITS):25BC1CI311 MAX. MARKS: 15

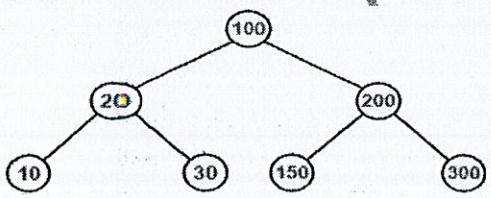
COURSE NAME:ALGORITHM AND PROBLEM SOLVING

COURSE INSTRUCTOR:SRT 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 not allowed

Q.No	Question	CO	Marks
Q1	Explain the following terms- • Parallel Computing • Divide and conquer approach • Algorithm with respect to parallelism	CO-2	3
Q2	Explain the concept of algorithmic complexity in detail along with detailed explanation of various asymptotic notations	CO-2	3
Q3	Give the preorder,inorder and postorder of the following **Binary Search Tree** 	CO-3	3
Q4	Based on the underlying approach behind Tower of Hanoi problem. Explain the concept in detail through an example?	CO-4	3
Q5	Highlight the significance of Priority Queues as a dynamic data structure?	CO-4	3

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