JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

BCA-I SEMESTER

COURSE CODE (CREDITS): 25BC1CI112 MAX. MARKS: 15

COURSE NAME: PROBLEM SOLVING TECHNIQUE USING C

COURSE INSTRUCTORS: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

Q.No	Question	CO	Marks
Q1.	Define an algorithm? Write and algorithm that generates the Fibonacci series up to 10 terms?	CO-1	3
Q2.	Define a pseudocode? Write a pseudocode asking user to enter number. a. If number is between 0 &10 write blue. b. If number is between 10&20 write red. c. If number is between 20&30 write green. d. If any other number is entered write not a correct color option	CO-1	3
Q3.	Explain the different symbols used in a flowchart? Draw a flowchart that calculates 2^4 using repetitive approach?	CO-1	3
Q4.	What do you understand by operator precedence and associativity? Write a C program that showcases operator precedence and associativity?	CO-2	3
Q5.	Explain the following operators used in C :– a. Arithmetic operators b. Relational operators c. Logical operators	CO-2	3