

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-I Semester (CSE/IT/BT/ECE/CE)

COURSE CODE (CREDITS): 24B11CI111 (03)

MAX. MARKS: 15

COURSE NAME: PROBLEM SOLVING AND PROGRAMMING

COURSE INSTRUCTOR: SSA

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	Draw a flowchart for finding the greatest among three numbers.	1	3
Q2	Write an algorithm to check whether a given number is even or odd?	1	2
Q3	What are the stages of the compilation pipeline, from source code to executable binary?	1	2
Q4	Convert the number system (a) $(321)_{10} = (?)_8 = (?)_{16}$ (b) $(1010)_2 = (?)_{10} = (?)_{16}$ (c) $(765)_8 = (?)_2 = (?)_{10}$ (d) $(CBA)_{16} = (?)_2 = (?)_8$	3	1 x 4 = 4
Q5	Write a C program for printing "Hello, World!". Explain the working of preprocessor, compiler and linking between inbuilt functions and header file.	2	4