

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

B.Tech-II Semester (BT)

COURSE CODE (CREDITS): 25B11CI212 (3)

MAX MARKS: 25

COURSE NAME: Fundamentals of Computers & Programming II

COURSE INSTRUCTOR: Dr. Saurabh Sharma

MAX. TIME: 1 Hour 30 Min

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	a) Write a C program to display a menu with five different options. The menu must be displayed at least once. Ask user to choose one option. Print the appropriate messages for each option selected. If the user chooses the 5 th option, then program must exit the menu and terminate successfully.	CO2	3
	b) Identify the concept used to implement the matrix multiplication in a C program.		2
Q2	a) Which loop will you choose between for loop and while loop to implement the C program which ask user to enter a username and print it. The program asks each time if user wants to print again by giving two options "YES" and "NO". The program keeps repeating the same process until user says "NO".	CO2	3
	b) Write a C program using for loop for the given code. <pre>#include<stdio.h> int main() { int i = 1; while (i <= 5) { if (i == 3) { break; } printf("%d\n", i); i++; } return 0; }</pre>		2

Q3	Identify five different operations which can be performed on strings. Explain with the help of suitable example program.	CO3	5
Q4	a) Write a C program to calculate the factorial of a number using recursive function.	CO3	3
	b) Identify the reason why we should avoid the use of recursive method for implementing Fibonacci series program.		2
Q5	a) Write a C program to make use of function declaration, function call and function definition.	CO3	3
	b) Organize scope of variables based on four storage classes. Give example program for global and local variables.	CO3	2

JUIT TEST-2 EXAMINATIONS- MARCH-2026