JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION - FEB - 2023

COURSE CODE (CREDITS): 18B11CI415(4)   MAX. MARKS: 15

COURSE NAME: Object Oriented Programming

COURSE INSTRUCTORS: Dr. Nafis U. Khan   MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. Explain any three characteristics of object oriented programming in detail. CO1 [3 Marks]

Q2. Explain the following terms with suitable examples: CO1 [4 Marks]

    a) Classes and structures in C++

    b) Data abstraction and encapsulation

Q3.

    a) Define constructor overloading in object oriented programming. Explain various types of constructors with suitable examples.

    b) Write a C++ program to display the account no, account holder's name and balance amount of a bank customer using parameterized and copy constructor.   CO2 [4 Marks]

Q4.

    a) Explain the need for using a Friend function in C++.

    b) Define two classes Test1 and Test2. Test1 store the marks of any student obtained in course1 and Test2 store the marks obtained in course2. Write a C++ program for finding the average marks of the student using Friend function.   CO2 [4 Marks]