

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-III Semester (ECM)

COURSE CODE (CREDITS): 20B11EM311(3)

MAX. MARKS: 15

COURSE NAME: Object Oriented Programming Concepts

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 briefly the characteristics of Object Oriented Programming (OOP) language and mention the advantages of OOP approach over function/procedure oriented programming.

CO1 [3 Marks]

Q2. Explain the following terms with suitable examples:

CO2 [4 Marks]

- a) Classes and Objects
- b) Abstraction and Encapsulation

Q3.

- a) Define Constructor in OOPs. Explain various types of constructors with examples.
- b) Write a C++ program to define overloaded constructor to perform string initialization, string copy and string destruction.

CO2 [4 Marks]

Q4.

- a) What is a Friend function? Explain the need for using a Friend function.
- b) Write a C++ program for finding the larger of the two numbers using Friend function.

CO2 [4 Marks]