

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-IV Semester (BI)

COURSE CODE: 18B11CI415

MAX. MARKS: 15

COURSE NAME: OBJECT ORIENTED PROGRAMMING

COURSE CREDITS: 3

MAX. TIME: 1 Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated against each question in square brackets.

Q1. 3 Marks

How are data and functions organized in an object-oriented programming? Explain it with a C++ program.

Q2. 3 Marks

Distinguish between following terms

- Objects and classes
- Data Abstraction and data encapsulation
- Inheritance and polymorphism

Q3. 3 Marks

When do we declare a member of a class static? Justify the need of a static member using a C++ program.

Q4. 6 Marks

Define a class to represent a bank account. Include the following members:

Data Members

- Name
- Account Number
- Type of Account
- Balance Amount

Member Function

- To assign initial values (Constructor)
- To deposit an amount
- To withdraw amount after checking the balance
- To display name and balance.

Write a C++ program for the above scenario.