Seat No.	

SHIVAJI UNIVERSITY, KOLHAPUR

DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI

B.Sc. Part-II Semester-III (NEP) Examination, March-2024
Object Oriented Programming using C++ (Paper-VI)
Sub. Code: 91575

Day and Date: Saturday, 13-04-2024   **Total Marks: 40**

Time: 10:30 a.m. to 12:30 p.m.

Instructions: 1) All Questions are *Compulsory*.

2) Figures to the right indicate full marks.

Q.1. Select the correct alternative and rewrite the sentence.   **[8]**

i. In which year, the name of the language was changed from "C with Classes" to C++?

a) 1979	b) 1972
c) 1983	d) 1986

ii. What is abstract class in C++?

a) Any Class in C++ is an abstract class.

b) Class from which any class is derived.

c) Class used as a base class with at least one virtual function.

d) Class used as a base class with at least one pure virtual function.

iii. In C++, 'cin' and 'cout' are the predefined stream _____.

a) operators	b)functions
c) objects	d) data types

iv. _____ is a run time entity in an OOP.

a) Object	b) Class
c) Method	d) Function

v. Which operator can not be overloaded in C++?

a) +	b) –
c) *	d) ::

vi. How can one implement the run-time polymorphism in the C++ programming language?
    a) By using the Template
    b) By using the concepts of inheritance
    c) By using both the virtual functions and inheritance
    d) By using only the virtual functions

vii. Which of the following is not a type of constructor?
    a) Copy constructor   b) Friend constructor
    c) Default constructor   d) Parameterized constructor

viii. By default the members of the class are _____.
    a) public   b) private
    c) protected   d) mandatory to specify

Q. 2. Attempt Any TWO of the following. [16]

a) Define Constructor and Explain default constructor.

b) What is inheritance? Explain multiple inheritance with example.

c) Define polymorphism. Explain run-time polymorphism.

Q. 3. Attempt Any FOUR of the following. [16]

a) Manipulators in C++

b) friend function

c) Explain member function definition outside the class with example.

d) Arithmetic and Relational Operators

e) Difference between structure and class.

f) Structure of C++ program