Roll No. : 386980 Total No. of Pages: 4

BCA 5003T

BCA (II-Semester) Examination, 2025

OBJECT ORIENTED PROGRAMMING C++

Time Allowed : Three Hours

Maximum Marks : 80

Part-A **[Marks : 20]**

Note: Answer **all** questions (**50** words each). All questions carry equal marks.

Part-B **[Marks : 40]**

Note: Answer **any five** questions (**250** words each), selecting one from each unit. All questions carry equal marks.

Part-C **[Marks : 20]**

Note: Answer **any two** questions (**300** words each). All questions carry equal marks.

Part-A

1 (i) Define Basic Structure of C++ Program.

(ii) Define Abstraction.

(iii) What is the purpose of a Friend Function?

(iv) Explain the use of this pointer.

(v) Explain the difference between static and dynamic binding.

(vi) What is the purpose of abstract class?

(vii) What is function template?

(viii) What is the difference between error and exception?

(ix) What does mean by I/O Stream?

(x) What is containers in STL?

Part-B

Unit-I

2. Explain the different types of Operators in C++.

OR

3. Explain the concept of default arguments using an example.

Unit-II

4. Describe the concept of static class member and Static member function.

OR

5. Write a C++ Program using class to explain the concept of function overloading.

Unit-III

6. What is virtual function? Explain with the help of C++ code.

OR

7. Write a notes on the following :

   (a) Polymorphism

   (b) Virtual destructors

Unit-IV

8. What is Exception Handling? Write C++ Program to demonstrate exception Handling using by, catch and throw.

OR

9. Explain the concept of overloading of function template.

Unit-V

10. Describe file streaming in C++.

OR

11. Explain sequential and Random File Processing.

Part-C

12. Briefly describe the feature of object oriented programming.

13. What is Constructor? Explain the types of constructor with help of C++ Program.

14. What is Inheritance? Explain different types of inheritance. Write C++ program to explain any one type of Inheritance.

15. Explain class template using C++ Program.

16. Explain the following :

    (a) Components of STL

    (b) Error Handling during file operation

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