

BSc C A/ BCA DEGREE END SEMESTER EXAMINATION - APRIL 2025**UGP (HONS.) SEMESTER - 2: DISCIPLINE SPECIFIC COURSE****COURSE: 24UBCADCC103/24UCAPDSC102: OOPS WITH C++***(For Regular 2024 Admission)*

Time: 1.5 Hours

Max. Marks - 50

PART A**Answer any 5 questions. Each question carries 2 marks each.****(2 x 5 = 10 marks)**

1. Write the need of an array. Discuss different types of arrays? (U, CO1)
2. Distinguish between late binding and early binding? (U, CO3)
3. Discuss about function overloading? (U, CO3)
4. Write the syntax and example to create a class? (A, CO2)
5. Discuss about Inline function? (U, CO1)
6. Explain different ways to define member functions of a class? Discuss about the role of scope resolution operator in defining member function? (U, CO2)
7. Discuss about destructor with its characteristics? (U, CO4)

PART B**Answer any 4 questions. Each question carries 5 marks each.****(5x 4 = 20 marks)**

8. Explain any four object oriented concepts (U, CO1)
9. Differentiate pass-by value and pass-by reference with an example program? (A, CO2)
10. Discuss returning objects from functions with an example program? (A, CO2)
11. Explain file handling in C++ with an example program? (A, CO4)
12. Write a C++ program to demonstrate Unary operator overloading? (A, CO3)

PART C**Answer 2 questions. Each question carries 10 marks each.****(2 x 10 = 20 marks)**

13. Explain the significance of static data and member functions in C++?
Write a program to implement Static member functions (A, CO2)
14. Discuss different types of constructors with the help of an example (A, CO4)
15. Explain the following with an example program
i) Multi-level Inheritance ii) Friend function (A, CO3)

CO No.	Course Outcome	CL	Questions	Total Marks
1	Implement the programmes with the concepts of object-oriented programming language and statements.	A	1,5,8,9	14
2	Modify the C++ programmes by reuse the codes having C++ class concepts.	A	4,6,10,13	19
3	Apply the concept of polymorphism.	A	2,3,12,15	19
4	Implement the concept of constructors, inheritance and files.	A	7,11,14	17