MAY 2025 **U/ID 46505/UCC3A**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is Reserve Word?
2. Define the term functions
3. What is Object?
4. What is Multilevel inheritance?
5. What is I/O Statement?
6. Define Destructor.
7. What is Queue?
8. What is Tree?
9. Define Polynomial.
10. How to convert general tree to binary tree?
11. What is Doubly Linked List?
12. Define Graph.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Discuss on Unformatted Console I/O Operations.

14. Explain the concept of Virtual function with examples.

15. Discuss about Inline functions with suitable examples.

16. Discuss on types of Inheritance with examples.

17. Explain the representation of Binary tree with examples.

18. Discuss on the structure of Stack and its operations.

19. Describe the various types of Binary tree.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the key concept of Object Oriented Programming with examples.

21. Write a C++ Program to print Fibonacci series of 1.. n Numbers.

22. Discuss about various file operations with examples.

23. Describe the concept and operations of Singly Linked List with examples.

24. Explain the Graph traversal algorithm with examples.