MAY 2023 **U/ID 46505/UCC3A**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are manipulators?
2. What is keyword?
3. What is operator?
4. What is Destructor?
5. Define: Polymorphism.
6. What is multiple Inheritance?
7. What is File?
8. What is composite Data type?
9. What is stack?
10. What is Tree?
11. What is Graph?
12. Mention How to represent Binary Tree in memory.

PART B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

13. What is object oriented programming? Discuss on the evolution of C++.

14. Explain the Importance of constructors.

15. Describe the concept of multiple Inheritance.

16. Explain the primitive and composite Data types.

17. Explain the operations on Queue.

18. Describe the various types of Binary Tree.

19. Explain: Hashing functions.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain the various operators in C++ with examples.

21. Discuss the Importance of constructors and Destructors with examples.

22. Describe the file operations with examples.

23. Explain the operations on Doubly Linked List with examples.

24. Discuss any two types of Graph Traversal Methods with examples.

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