

APRIL 2024

53502/120C2A/
141C2A

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Mention the need for object-orientation.
2. What is abstraction?
3. Write a note on this pointer.
4. What do you mean by operator overloading?
5. What are the types of conversion functions in C++? Give example.
6. What is function overriding?
7. State the purpose of virtual functions.
8. Define: "Iterators".
9. Show the need of restricting exceptions.

10. Comment on class templates.
11. List out the methods used for fstream class.
12. Define the term "Manipulator".

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Distinguish between the friend functions and friend classes.
14. Explain the declaration of pointer to objects with example.
15. What are the base class and derived class constructors? Explain.
16. Summarize the concept of virtual base classes with example.
17. Elaborate the multiple inheritance with simple C++ program.
18. Point out the handling exceptions in derived classes.
19. Write down the opening and closing a file in C++.

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PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Compare and construct constructors and destructors.
21. Discuss the overloading an operator as a member function.
22. Outline the declaration of pure virtual function with example.
23. Evaluate the function templates with multiple parameters.
24. Illustrate the need of unformatted and binary I/O.

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