Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Give the general form of inline function.

2. What is an object?

3. Write down the use of "this" pointer?

4. Give the syntax for specifying a class.

5. What is the use of "new" operator?

6. Differentiate between the constructor and destructor.

7. Define: "Inheritance".

8. What do you mean by dynamic object?

9. What is exception?

10. Define: "Polymorphism".

11. What are the different file modes?

12. Write down the use of Template.

I BCA → Major -II C++.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Write a C++ program to perform arithmetic operations using Inline function.

14. Explain the purpose of Switch case statement in C++.

15. Write the general form of a class declaration and how to create objects for a class.

16. Distinguish between the Multiple and Hierarchical inheritance.

17. How will you declare a virtual function? Explain.

18. Write a C++ program to find the Biggest among the N numbers.

19. Write note on exception handling mechanism.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Compare the for loop and while loop statements in C++.

21. Write a C++ program to perform function overloading for finding area of different shapes.

22. Elaborate the need of Virtual base Classes in C++.

23. Discuss the pointers to derived classes and Base classes with example.

24. How will you declaring and Initializing string objects? Explain.

_____