Register No.   Time: 3 Hours
                                                     Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.   **(10 x 1 = 10)**

1. _____ directs to the procedure of representing essential features without including the background details.

2. _____ function should not static and must be a member of class.

3. Dynamic binding is done at _____

4. _____ provide support for simultaneous input and output file operations.

5. Variables and functions in a class are called _____

6. Variables that stores non numerical values that are longer than one single character are called _____

7. _____ is a variable that holds a memory address.

8. _____ are defined outside the main () function block.

9. ADT stands for _____

10. A function body is inserted in place of the function call statements during compilation is

    called _____

II. Explain briefly. Answer any TEN questions.   **(10 x 4 = 40)**

1. What are the different data types used in C++?

2. Write a C++ program to check whether a given number is Prime or not.

3. Write a C++ program to add two Matrices.

4. What you meant by Local Variables and global Variables?

5. Define Function Overloading.

6. Briefly explain about File Pointers.

7. Describe about storage classes in C++.

8. Define a Destructor.

9. What is Unary Operator Overloading?

10. Briefly explain about types of Inheritance.

11. How memory management achieved in C++?

12. Describe about file streams.

13. What are the difference between a Pointer and Reference?

III. Answer any FIVE questions. Explain in detail. (5 x 10 = 50)

1. Explain in detail about different operators used in C++.

2. List out different Control Structures in C++.

3. Compare and contrast Arrays and Structures.

4. Write note on Templates (Generic Programming).

5. Explain about the File Operations in C++.

6. Explain in detail about Functions.

7. Explain the concept of Oops.

****