



Q-2 Do as directed. (ATTEMPT ANY SEVEN) [14]

- (1) Define pointer. Why it is required?
- (2) List out various modes of file management with their meaning.
- (3) What is the difference between constructor and destructor?
- (4) Discuss on parameter passing using pass by value and pass by reference.
- (5) Write a note on Macros in C++.
- (6) What is Data Structure? List out applications of Data structure.
- (7) What is difference between Static binding and Dynamic binding?
- (8) Write a short note on Doubly Link List.
- (9) What is 'Queue'? How does it differ from a 'Stack'?

Q-3 A Explain the basic terminology related to OOP's. List advantages and disadvantages of OOP's. [6]

B What is operator overloading? Explain unary operator with example. [6]

OR

B Explain function overloading with an example. [6]

Q-4 A Explain inheritance and its different forms with examples. [6]

B Define friend function. What are the characteristics of it? Explain its usage with example. [6]

OR

B What is virtual function? Why it is required? Discuss virtual function with example. [6]

Q-5 A What is Stack? Explain PUSH and POP operations. [6]

B What is Linked List? Write an algorithm for insertion of new element at the Last of the singly Linked List. [6]

OR

B Write an algorithm to delete an element from a Simple Queue. [6]

Q-6 A What is a binary tree? Explain inorder, preorder and postorder traversal of a binary tree. [6]

B What is hashing? List out Hashing techniques. Explain ANY TWO of them. [6]

OR

B Write a brief note on ISAM. [6]

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