

- Q-2** Do as directed. (ATTEMPT ANY SEVEN) 14
- (1) Define the following: 1) Data Members 2) Member Function
 - (2) Explain in short Encapsulation.
 - (3) Define: Base class and Derived class.
 - (4) Explain Function Overloading.
 - (5) Differentiate between: Private and Public Access Control Specifiers.
 - (6) What is data structure? List out their applications area.
 - (7) Differentiate between stack and queue.
 - (8) What do you mean by binary tree?
 - (9) What is queue data structure? List out types of Queue.
- Q-3** A Discuss the concept of single inheritance with an example. 6
- B Explain new and delete operator used in C++. 6
- OR**
- B Write a note on parameterized constructor. 6
- Q-4** A Explain Binary Operator Overloading with an example. 6
- B Discuss virtual function used in C++. 6
- OR**
- B Explain Unary Operator Overloading with an example. 6
- Q-5** A Write an algorithm for PUSH and POP operations of stack. 6
- B Write a note on: Row Major Order and Column Major order of 2D array. 6
- OR**
- B Write an algorithm to insert and delete an element from Queue. 6
- Q-6** A Discuss the Linear and Linked storage representation of binary tree. 6
- B Explain ANY THREE hashing function with an example. 6
- OR**
- B Write a brief note on ISAM. 6

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