



- k) Which of the following are types of sorting methods?  
 A) Quick Sort. B) Shell Sort.  
 C) Radix Sort. D) All of Above.
- l) \_\_\_\_\_ is a variable that stores the address of another variable.  
 A) Function. B) Array.  
 C) Pointer. D) String.
- m) Stack works in \_\_\_\_\_ manner.  
 A) FIFO. B) LOFO.  
 C) LIFO. D) LIFI.
- n) Which of the following are not types of string function?  
 A) strcmp(). B) strcpy().  
 C) strlen(). D) strlen().

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**  
 (A) Write an algorithm for Merge Sort. (07)  
 (B) What is Data Structure? Explain Primitive and Non Primitive data structure in detail. (07)
- Q-3 Attempt all questions (14)**  
 (A) What is Stack? Write algorithm for PUSH and POP operation on stack. (07)  
 (B) What is Array? Explain Two Dimensional Array with example. (07)
- Q-4 Attempt all questions (14)**  
 (A) Define a linked List? Write an algorithm to delete a node in doubly linked list. (07)  
 (B) What is Queue? Write algorithm for PUSH and POP operation on Queue. (07)
- Q-5 Attempt all questions (14)**  
 (A) What is Binary tree? Explain tree traversal technique with example. (07)  
 (B) Explain different Hashing Methods? (07)
- Q-6 Attempt all questions (14)**  
 (A) Define Following Terms: 1.String. 2. Data. 3. Information. 4. Undirected Graph. 5. Mixed Graph. 6. Isolated Graph. 7. Null Graph. (07)  
 (B) Write a C Program to compare two strings. (07)
- Q-7 Attempt all questions (14)**  
 (A) Write an algorithm to find the length of given string. (07)  
 (B) Explain circular linked list with example. (07)
- Q-8 Attempt all questions (14)**  
 (A) Explain difference between Stack and Queue. (05)  
 (B) Explain difference between Linked List and Sequential List. (05)  
 (C) Write an algorithm to insert an element from array. (04)

- Q-9 નીચેના પ્રશ્નોનાં જવાબ આપો. (૧૪)**
- a) ફિલ્ડ ના સમૂહ ને \_\_\_\_\_ તરીકે ઓળખવામાં આવે છે.  
 અ) સેલ. બ) રેકોર્ડ.  
 ક) ડેટા. ડ) લીસ્ટ.
- b) સ્ટેક માં ડિલીટ ઓપરેશન ને \_\_\_\_\_ તરીકે પણ ઓળખવામાં આવે છે.







