



Q-2 Do as directed. (ATTEMPT ANY TEN)

- (1) Differentiate between '\*' and '&' operators in pointers.
- (2) List out benefits of pointers.
- (3) What is scale factor? Explain with example in brief.
- (4) Differentiate: structure and union.
- (5) List file modes available to manage the file in C.
- (6) Explain the fclose() function with example.
- (7) Draw the Hierarchical Structure of Data Structure.
- (8) Differentiate: primitive and non primitive data structure.
- (9) What is Data structure? List out different applications of data Structure.
- (10) What is a doubly Linked list?
- (11) Define: Circular Queue and Deque.
- (12) What is a Queue? Give examples.

Q-3 Write a note on Dynamic memory allocation.

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OR

Q-3 Define pointer variable. How can we declare and initialize pointer variable? How can we access value of variable through pointer type variable? 10

Q-4 A Explain array of structures using suitable examples. 5

B Explain the all the modes of file management with example. 5

OR

Q-4 A What is structure? Explain its definition, declaration and assigning values to members of structure. 5

B Write note on: pointer to structure. 5

Q-5 Explain a STACK with an example. Write down all the operations performed over a stack and also write their algorithm. 10

OR

Q-5 A Explain the linear and non linear data structure briefly. 5

B Write down advantages of data structure. 5

Q-6 A Write an algorithm to insert an element into a simple queue. 5

B Write an algorithm to delete an element from a simple queue. 5

OR

Q-6 A Write an algorithm to insert an element at the beginning of a Singly linked list. 5

B Write a short note on Singly linked List. 5

*Best of luck,*

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