

## **SECTION-B**

**Note:** short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Write the advantages of flowchart.
- Q.12 How an element is searched in binary search three.
- Q.13 What is sequential search algorithm.
- Q.14 What are the rear and front pointers of queue. How pointers changes when we delete an element.
- Q.15 Differentiate between single linked list and double linked list.
- Q.16 Explain working of circular queue is short.
- Q.17 Explain bubble sorting method with an example.
- Q.18 Explain De-queue in brief.

## **SECTION-C**

**Note:** Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 What is data structure. Give its type and classification. Explain it with examples.
- Q.20 What is a binary tree. Explain its concepts in detail. Also explain various traversing methods for a binary tree.

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**DVOC (Level 5)**  
**Subject : Data Structures**

Time : 2 Hrs.

M.M. : 50

## **SECTION-A**

**Note:** Very short questions. Attempt all ten questions. (10x1=10)

- Q.1 Define Stack.
- Q.2 Write one advantage of data structure.
- Q.3 Define height and path of a binary tree.
- Q.4 Define global variable.
- Q.5 What is data type.
- Q.6 Define the term searching.
- Q.7 \_\_\_\_\_ are variable which can be accessed by all modules. (Global/Local)
- Q.8 Define PUSH and POP.
- Q.9 State true or false: "Binary search is applied on unsorted list of elements."
- Q.10 What is meant by pointer variable.