No. of Printed Pages : 2 189062
Roll No. .....

Dvoc - Level -5

2nd Sem / Software Development

Subject : Data Structure

Time : 2 Hrs. M.M. : 50

SECTION-A

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

Q.1 Define data structure

Q.2 Tree is an example of _____ data structure

Q.3 The basis operations in stack are_____

Q.4 Define Dequeue.

Q.5 Mention one application of graph

Q.6 LIFO stands for _____

Q.7 Mention one limitation of linear queue

Q.8 Mention one application of linked list

Q.9 Node with no children is called _____

Q.10 Define flowchart

SECTION-B

Note: Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

Q.11 Compare doubly and circular linked list

Q.12 Compare stack and queue data structures.

Q.13 Explain priority queue and its advantages

Q.14 Discuss threaded tree. What are the advantages of threaded tree.

Q.15 Discuss in brief about binary search with an example.

Q.16 Define the terms:-

a. Degree of a tree b. Height of a tree

c. Parent d. Root node

e. Level

Q.17 Discuss in brief about depth first traversal of a graph

Q.18 Mention the steps involved in the program development cycle

SECTION-C

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

Q.19 What is a binary tree. What are the various methods to transverse a binary tree. Explain them with examples.

Q.20 What is meant by sorting. Mention the various sorting methods. Discuss any two in detail

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