



ADITYA DEGREE COLLEGES

◆ ANDHRA PRADESH ◆

PREFINAL- IV SEMESTER EXAMINATIONS

BCA - DATA STRUCTURES

Max. Marks : 75 M

Time : 3 Hours

Date: 27.03.2020

SECTION - A

Answer any THREE Questions:

5X5= 25M

1. Write about Data Types.
2. Write about Linear and Non-Linear structures.
3. Write about Queues.
4. How to represent Trees as Arrays?
5. Define Graph and How to represent Graph.
6. Write about Minimum Spanning Trees.
7. Write about Insertion Sort.
8. Write a program for Linear/Selection Sort.

SECTION - B

Answer the following Questions:

5X10= 50M

9. a) Write a program for Single Linked list.
OR
b) Write a program for Double Linked list.
10. a) Write a program for Stack using Array.
OR
b) Write a program for Circular Queue using Array.
11. a) Explain about how to inserting and seaching data in Binary Search Trees (BST).
OR
b) Explain about Traversing in Binary Search Trees (BST).
12. a) Explain about Breadth-First Search.
OR
b) Explain about Depth-First Search.
13. a) Explain about Merge Sort.
OR
b) Explain about Quick Sort.

ADC,KKD