R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year I Semester Examinations, March - 2021
DATA STRUCTURES
(Common to CSE, IT, ITE)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Discuss in brief about single linked list.
  b) Write a C program to convert infix to postfix expression.   [7+8]

2.   What are different methods of collision resolution in hashing? Explain in brief.   [15]

3.a) Discuss in detail about red-black trees.
  b) Explain briefly about binary search trees.   [7+8]

4.   How a graph is traversed using depth first search? Explain with example.   [15]

5.   Explain the process of heap sort with example.   [15]

6.   Explain in brief about tries with example.   [15]

7.   Compare and contrast different sorting methods.   [15]

8.   Explain in detail about skip lists in data structures.   [15]

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