

MAY 2015

P/ID 17507/PCASG

Time : Three hours

Maximum : 100 marks

PART A — ($6 \times 5 = 30$ marks)

Answer any SIX questions.

1. Discuss on ordered list.
2. Write a procedure to delete a node from a single linked list.
3. Write down the various operations of stack.
4. Write the properties of a graph.
5. Write notes on single source shortest path.
6. Discuss on insertion sort.
7. Write a procedure to delete an element from a B-tree.
8. Write notes on AVL trees.

PART B — ($7 \times 10 = 70$ marks)

Answer any SEVEN questions.

9. Give a detailed note on asymptotic notation.
10. Explain the representation of arrays.

11. Discuss on doubly linked list.
 12. Explain the following :
 - (a) Circular queue
 - (b) Linked queue.
 13. Explain the various representations of graphs.
 14. Describe Prim's algorithm.
 15. Explain heap sort.
 16. Discuss on sorting with disks.
 17. Give a detailed note on red black trees.
 18. Write a detailed notes on splay trees.
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