

DECEMBER 2014

P/ID 17507/PCASG

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Time : Three hours

Maximum : 100 marks

PART A — ( $6 \times 5 = 30$  marks)

Answer any SIX questions.

1. Write notes on ordered list.
2. Write notes on circular list.
3. Write down the various operations of queue.
4. Write notes on binary trees.
5. Write down the properties of a graph.
6. Discuss on binary search.
7. Write a procedure to insert an element into 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 abstract data types.
10. Write notes on arrays.

11. Discuss on single linked list.
  12. Explain stack and its operations.
  13. Explain the representation of binary trees.
  14. Discuss the following :
    - (a) Breadth first search
    - (b) Depth first search.
  15. Explain quick sort.
  16. Write notes on sorting with tapes.
  17. Give a detailed note on red black trees.
  18. Write notes on splay trees.
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