

MAY 2011

**P/ID 17460/
RCK/PCAK**

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Write down the various operations associated with arrays.

Or

- (b) Discuss on Complexity analysis.

2. (a) Explain the various representations of linked list.

Or

- (b) Write a procedure to insert an element in a linked list.

3. (a) Discuss on Binary search tree.

Or

- (b) Explain the various representations of graphs.

4. (a) Discuss on Sorting large objects.

Or

- (b) Write an algorithm for Selection sort.

5. (a) Write down the advantages and disadvantages of AVL tree.

Or

- (b) Discuss on Hashing.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Explain the various representations and addressing operations in arrays.
7. Explain about stack and its operations.
8. Discuss on evaluation of expressions.
9. Discuss in detail about the application of trees.

10. Explain the technique of solving shortest path problem with an example.
 11. Explain sorting with disks.
 12. Explain Quick sort.
 13. Explain B-trees.
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