

MAY 2014

**P/ID 17461/RCL/
PCAL**

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write short notes on Random algorithms.

Or

(b) Explain STRASSEN'S matrix multiplication.

2. (a) Explain knapsack problem.

Or

(b) Discuss on job sequencing with deadline.

3. (a) Write short notes on general method of back tracking.

Or

(b) Explain on graph coloring.

4. (a) Explain least cost (LC) search.

Or

(b) Write short notes on bounding.

5. (a) Write short notes on ordered searching.

Or

- (b) Write short notes on merging.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Explain quick sort with an algorithm.
7. What is meant by selection sort and explain it with an algorithm?
8. Discuss on multistage graphs.
9. Explain on string editing.
10. Explain breadth first search with an example.
11. Explain travelling salesman problem with an example.
12. Discuss an oracle and adversary arguments.
13. Explain nondeterministic algorithms.