MCA/IIS/206/13

MCA 2nd Semester Examination, 2013

ALGORITHM LAB.

PAPER — MCA-206

Full Marks : 100

Time : 6 hours

Answer **one** question

The figures in the right hand margin indicate marks

Questions are to be selected by lottery

1. Write a program to implement a m-coloring problem using a graph and construct a function by backtracking techniques. 60

2. Write a program to find minimum spanning tree by Kruskal's algorithm. 60

3. Write a program to arrange a list of numbers in ascending order by Divide and conquer method. 60

4. Write a program to find all pair shortest paths in a graph by dynamic programming technique.   60

5. Write a program to implements an integer multiplication using dynamic programming.   60

6. Write a program to implement job sequencing with deadlines by Greedy technique.   60

7. Write a program to implement the Quick sort technique by divide and conquer method.   60

(*Turn Over*)

8. Write a program to implement a *N*-Queen problem using backtracking method.   60

Viva — 30
PNB — 10

Marks Distribution

1. Problem Description — 10 %

2. Program Listing — 40 %

3. Results and Discussion — 30 %

4. Viva — 20 %