DRAVIDIAN   UNIV ERSITY

Directorate of Distance Education (DDE)

KUPPAM – 517 426:: A.P.

COURSE: II YEAR MCA

PAPER-IV Computer Algorithms

QUESTION PAPER FOR ASSIGNMENT

Answer any **THREE** of the following **FIVE** Questions.

3x10=30

1. What is stack? Write algorithms to add an item to a stack and delete an item from a stack.

2. Write an algorithm to solve Knapsack problem using Greedy method.

3. Write an algorithm for all-pairs shortest paths problem using dynamic programming.

4. Write an algorithm to solve NQueens problem using Backtracking strategy.

5. Explain the Least Cost (LC) branch –and-bound solution for Travelling Salesperson problem with an example.