

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2011–12)

SUBJECT CODE : 11MT/PE/AP14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2011
BRANCH I - MATHEMATICS
FIRST SEMESTER

COURSE : ELECTIVE

PAPER : ALGORITHMS AND PROGRAMMING

TIME : 3 HOURS

MAX. MARKS : 100

THEORY

Answer any five questions:

(5x8=40)

1. Define doubly linked list. Give the Algorithm to insert a code in a list.
2. Define the Searching Techniques.
3. Explain the shortest path algorithm.
4. Explain 8-queens problems.
5. Define sorting explain Insertion Sort with example.
6. Explain 0/1 – knapsack.
7. Define minimum Cost Spanning tree.
8. Discuss Hamilton cycles.

▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲