

Code: 9F00105

MCA I Semester Supplementary Examinations, October/November 2013

DATA STRUCTURES

Time: 3 hours

Max Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write a C program to multiply two matrices.
(b) What is a string? Explain any three string handling functions with their syntax and example.
- 2 (a) Discuss in detail about the polynomial representation.
(b) Write short notes on circular linked lists.
- 3 (a) Write a procedure to evaluate a postfix expression. Explain it with a suitable example.
(b) Give brief description about the linked representation of stacks.
- 4 (a) Explain with suitable examples, the various operations that can be performed on queues.
(b) Write short notes on the applications of queues.
- 5 Discuss in detail about the following sorting techniques:
(a) Selection sort.
(b) Merge sort.
- 6 (a) Distinguish between linear search and binary search.
(b) Describe in detail about the inverted tables.
- 7 Explain in detail about the various operations that can be performed on binary search trees.
- 8 (a) Give brief description about the height balanced trees.
(b) Explain the deletion operation using the B-Trees.
