

Code: 9A05101

R9

B.Tech I Year (R09) Supplementary Examinations, November/December 2011

PROGRAMMING IN C AND DATA STRUCTURES

(Common to all branches)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Mention the steps involved in Software Development Method.
(b) Briefly explain the need for software maintenance.
(c) What is an algorithm? Explain with suitable example?
- 2 (a) What is an expression? Explain different categories of expressions.
(b) What are logical operators in C? Write a C program to illustrate the logical operators?
- 3 (a) Write a program to find the factorial of a number using recursion?
(b) Write a short note on one dimensional arrays.
- 4 (a) Explain declaration and initialization of arrays of strings.
(b) Write a C program to find whether a given string is palindrome or not.
- 5 (a) What is the use of period operator? Give an example.
(b) Explain structure within structure using an example.
- 6 (a) Write a program in C that reads the name of a file and displays the contents of the file on the user screen.
(b) Write a program in C that reads the contents of a file containing integers and displays the largest among the integers on the user screen.
- 7 (a) What is circular queue?
(b) What are the advantages of circular queue over linear queue?
- 8 (a) Discuss binary search algorithmic technique with an example.
(b) Write a program in C to perform linear searching method.
