

Code: EM2T6

I B.Tech-II Semester-Regular Examinations - July 2013

C - PROGRAMMING
(For Electronics and Computer Engineering)

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

- 1 a) Explain the various basic data types in C? 7 M
b) Draw a flow chart to check whether the given number is prime or not. 7 M
- 2 a) Explain about 'comma' and 'conditional' operators in C. 7 M
b) Explain about 'increment' and 'decrement' operators with examples. 7 M
- 3 a) Explain 'switch – case' statement in C with suitable examples. 7 M
b) Write a C program to find GCD of given numbers. 7 M
- 4 a) Explain string declaration and initialization with an example. 7 M

- b) Write a C program to check whether the given string is
palindrome or not. 7 M
- 5 a) Explain pointer expressions with examples. 7 M
- b) Write a C program using pointers to determine the length
of a character string. 7 M
- 6 a) What is a function? Explain various category of functions
in C. 7 M
- b) Write a recursive function to find the factorial of a given
number. 7 M
- 7 a) What is a macro? Explain with suitable examples. 3 M
- b) Explain Enumerated Data Type with an example. 4 M
- c) Write a C program to store details of 10 students using
structure and to print the details. 7 M
- 8 a) Write a program to copy the contents of one file into
another. 7 M
- b) Explain `getw()` and `putw()` with suitable examples. 7 M