

Code: EE2T6, CE2T6, ME2T6, CS2T6, IT2T6

I B.Tech - II Semester – Regular Examinations – April 2016

C - PROGRAMMING
(Common for EEE, ME, CSE, CE, IT)

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) Define Algorithm.
- b) Define type casting and list the types.
- c) List different conditional statements.
- d) What is the purpose of the function `strrev()`
- e) Define void pointer give an example.
- f) Define Array, and declare a 2-D array.
- g) Write a C function to find GCD of two numbers.
- h) What is pointer to pointer.
- i) Explain the function `fopen()`
- j) Define nested structure give an example.
- k) What is an actual parameter?

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2.

- a) What are the different types of operators in C? Explain any four types with an example. 12 M

- b) Draw the block diagram of Computer. 4 M
- 3.
- a) What is an Array? Explain compile time and run time initialization with suitable examples. 10 M
- b) Write a program to check the given number is palindrome or not using do-while loop. 6 M
- 4.
- a) Explain different types of storage classes. 8 M
- b) What is recursion? Write a program to find factorial of a number using recursive function. 8 M
- 5.
- a) Briefly explain the dynamic memory allocation functions available in C with suitable examples. 10 M
- b) Write a program for adding of two matrices. 6 M
- 6.
- a) What is a file? Explain different modes of file operations. 8 M
- b) How Structure elements are accessed using pointer? Give an example. 8 M