

Code: AE1T5/ EC1T5/ EE1T4/ IT1T4/ME1T3

**I B.Tech-I Semester-Regular Examinations-February 2013**

**C – Programming**

**(Common for AE, ECE, EEE, IT, Mechanical)**

Duration: 3hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

- (1). a) Explain the following (6M)
- i) Machine language
  - ii) Assembly language
  - iii) Higher level language
- b) Draw a flow chart to find GCD of two positive integers. (8M)
- (2). a) Explain operator priority in C (7M)
- b) Explain bitwise operators with examples. (7M)
- (3). a) Explain various if statements in C (7M)
- b) Write a C program to find the given number is prime number or not. (7M)
- (4). a) Explain array declaration and initialization with examples. (7M)

- b) Write a C program to arrange given array of numbers in ascending order. (7M)
- (5). a) Explain pointer declaration and initialization. Explain how variables are accessed through its pointer. (7M)
- b) Explain dynamic memory allocation functions. (7M)
- (6). a) Explain the following with suitable examples? (7M)
- (i) Call by value (ii) Call by reference
- b) Explain various storage classes in C. (7M)
- (7). a) What is a macro? Write a macro that gives the minimum of three values. (7M)
- b) Define structure? Explain nested structures with an example? (7M)
- (8). a) What is a file? Explain various modes of operations on files with examples. (7M)
- b) Explain fseek() and ftell() with suitable examples.(7M)