Code: AE1T5, EC1T5, EE1T4, IT1T4, ME1T3

I B.Tech - I Semester – Regular Examinations February - 2014

C - PROGRAMMING
(Common to AE, ECE, IT, EEE, ME)

Duration: 3 hours   Marks: 5x14=70

Answer any FIVE questions.   All questions carry equal marks

1. a) Describe the different data types available in 'C'.   5 M

   b) How many keywords and Identifiers does 'C' language support? Explain.   7 M

   c) Define Compiler and Interpreter.   2 M

2. a) What are arithmetic and logical operators? Explain with examples.   8 M

   b) What are library functions ? How are they useful in 'C' program.   6 M

3. a) Differentiate between break and continue. Explain with examples.   7 M

   b) Using the do-while loop construct write a program for checking the given number is palindrome or not.   7 M

4. a) What is an array? Write a program to insert an element in the given array and sort the array.   7 M

   b) Describe the standard string functions with syntax.   7 M

5. a) What is a void pointer? Describe about the arithmetic operations with pointers.   7 M

   b) Explain Dynamic Memory allocation with examples. 7 M

6. a) Explain Call by reference with an example.   5 M

   b) Describe how to pass function as an argument in a 'C' program.   5 M

   c) Write about Static variables with example.   4 M

7. a) Write a program to store details of a product using union and print the details of a product.   5 M

   b) Give the difference between structure and union.   3 M

   c) Explain the #pragma directive with example.   6 M

8. a) Using file I/O write a program that prompts the user for filename and displays on the screen.   7 M

   b)What are the steps involved in File operations? Explain.   7 M