Roll. No………………………… 1211004

B.Tech(Integrated M.Tech/MBA) 1st Semester Examination
Jan.2014
Introduction to Computer Programming
Subject Code: CSL-101

Time Allowed: 03 hours.              Maximum Marks: 100

Before answering the question paper the candidate should ensure that
they have been supplied the correct question paper. Complaints in this
regard, if any, shall not be entertained after the examination.

Note: Question No. 1 is Compulsory and attempt two questions from each
section. All questions carry equal marks.

1(a) What is recursion? Explain with suitable example. (5)
(b) What is Assembly & High Level Languages? (5)
(c) What is logical & Constant variable? (4)
(d) What is the output from the following statements? (6)
   1. if ( 60 <= 12 * 5)
      printf("Hello ");
      printf( " There");
   2. if ('a' > 'b' || 66 > static_cast<int>('A'))
      printf("###\n");
   3. if (7 <= 7)
      printf("%d",6 - 9 * 2 / 6)

SECTION-A

2 (a) What is computer? Explain the different types of memories. (10)
   (b) Explain the functional block diagram of computer system. (10)

3 (a) Explain the different types of operating system with suitable
   example. (10)
   (b) Explain the different types of languages with suitable example. (10)

4. What is LAN & WAN? Explain the different type of topologies in
detail. (20)

SECTION-B

5(a) Write a C Program to sort an array in ascending order. (10)
   (b) Write a C function that computes that total sum of a 2D array of
   size 6 by 5. (10)

6(a) Write a C language program to display the largest element in the
   matrix. (10)
   (b) Write a C Program that declares 3 arrays of size 4 by 3 and type
   integer. Your program should read the values of the first two
   arrays, add the two arrays values and store the results in a third
   array. Declare function to read the array values, use the function
   twice. Declare another function to add two arrays and store the
   result in a third one. (10)

7(a) Write a C program that prints below shape using nested loop
   *
   ***
   *****
   ********
   *********
   ****
   ***
   *
   (10)
   (b) Write a C language program to check whether given number is
   prime or not. (10)