Diploma / Integrated B.Tech 2nd Semester Examination
June, 2013
Introduction to C

Subject Code: CSL-002

Roll. No…………………………

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: Attempt any five questions and all questions carry equal marks.

Section – A

1. (a) What is an operating system? Differentiate between LINUX and Unix Operating System.
   (8)

   (b) Convert the following
   (3*4=12)
   a) \(796_{10} = \) \(?\) \(_{16}\)
   b) \(48_{10} = \) \(?\) \(_{2}\)
   c) \(1010110_{2} = \) \(?\) \(_{8}\)
   d) \(10011.01_{2} = \) \(?\) \(_{10}\)

2. (a) What do you mean by operator? Explain the various types of operator.
   (10)

   (b) What are the different scopes in c? Explain with the help of example.
   (10)

3. (a) Explain various types of iterative statements. Also explain break statement.
   (8)

   (b) Write a program to find factorial of any number.
   (6)

   (c) Write a program to find largest of three numbers.
   (6)

Section – B

4. (a) How to declare and access the members of structure Write the syntax for it.
   (6)

   (b) What do you mean by string? Explain strcpy function with the help of program.
   (6)

   (c) WAP to find transpose of a matrix m*n.
   (8)

5. (a) What do you mean by the term algorithm? Write the steps of an algorithm to find area of square.
   (7)

   (b) Explain variable and constants with example.
   (6)

   (c) Explain Switch and Goto Statement.
   (7)

6. (a) Write the syntax of open and close a file. With the help of suitable example explain the concept of macro definition.
   (10)

   (b) What do you mean by modular programming? How to call and define a function? With the help of program explain the concept of call by value.
   (10)