Diploma / Integrated B.Tech 2nd Semester Examination
June, 2014
Introduction to C

Subject Code: CSL-002

Time Allowed: 03 hours. Maximum Marks: 100

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

Q-1 Answer any four:
(a) Difference between Linux and Unix operating system?
(b) What do you mean by operator precedence? Explain.
(c) Explain Modular programming with example?
(d) Why we use Macros in C language?
(e) Explain various data types in C language.
(f) Explain Nested if statement.

SECTION A
Q-2 (a) Define Algorithm? Explain how the complexity of an algorithm can be measured?
(b) Write notes on:
   i. top-down and bottom-up approach
   ii. stepwise refinement

Q-3 (a) What are operators? Explain all types of operators available in C language?
(b) Write a program in C to implement various relational operators?

SECTION B
Q-4 (a) What is a switch statement? Explain with the help of programming example?
(b) Difference between while and do-while loops? Explain with the help of programming example?

Q-5 (a) Write a program in C to store the marks of students in a one-dimensional array.
(b) What is a Pointer? Write a program to access a variable through its pointer?

Q-6 (a) What is sequential search? Explain with the help of example?
(b) What is a structure? Write its advantages and Explain how structure members can be accessed?

Q-7 Explain all string handling functions with programming example.

Q-8 Why the function is used in C Program? Write a program to calculate factorial of no using function. Explain various types of function used in a C program.