



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)  
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

MSC-IT(11) 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15 Jan. 2013*

Course Title: Computer Programming using C

Course Code: M.SC.-IT-03

Year: 2012-13

Maximum Marks: 40 Marks

**Section 'A'**

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. What do you understand by compilation and execution of a program?
2. Write an algorithm to find the factorial of a number.
3. What is an operand? What is a relationship between operator and operand?
4. What do you mean by the storage class of a variable? How many types of storage class exist?
5. What is a macro? Summarize the similarities and differences between macro and function?
6. What is recursion? Explain it with example.
7. Write a C program to find the largest and the smallest of n numbers.
8. What is a structure? How is a structure different from an array?

**Section 'B'**

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answer 02 questions only.

1. Name and describe the four basic data types in C.
2. What is the purpose of **while** statement? When is the logical expression evaluated? What is the minimum number of times that a while loop can be executed?
3. What is meant by array of structure?
4. Explain briefly: ftell(), rewind() and fseek().