



UTTRAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

**BCA-11 1<sup>st</sup> YEAR 1<sup>st</sup> SEMESTER ASSIGNMENT**

*Last Date of Submission: 15 Jan. 2014*

**Course Title** Intro. to computer programming using C  
**Year: 2013-14**

**Course Code: BCA-02**  
**Maximum Marks: 40 Marks**

**Section 'A'**

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

1. State three advantages to the use of functions.
2. What is recursion? Explain it with example.
3. What do you mean dynamic memory allocation? How it is useful?
4. What is a structure? How is a structure different from an array?
5. What is meant by array of structure?
6. Explain the functions of fopen() and fclose() with one example each.
7. Mention the various modes used with the fopen() functions.
8. Explain briefly: ftell(), rewind(), fseek().

**Section 'B'**

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

1. What are formal and actual arguments? What is the relationship between formal and actual argument?
2. What is the header file for string library function. Describe four string library functions with there syntax and example.
3. What is meant by union? Differentiate between structure and union.
4. Write a complete C program that will calculate