



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

MCA-16/MCA-11 2<sup>ND</sup> YEAR 4<sup>TH</sup> SEMESTER ASSIGNMENT

*Session - 2017-18, Summer Last Date of Submission: 31st October 2017*

*Session - 2017-18, Winter Last Date of Submission: 30th April 2018*

**Course Title:** System Software

**Course Code:** MCA-15

**Maximum Marks:** 30/20

**Section 'A' contains 08 short answer type questions of 4/2.5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

1. Briefly distinguish between one pass and two pass assembler.
2. What is the use of symbol table in assembler?
3. Define a macro. Illustrate with an example.
4. What is bootstrap loader? Explain.
5. What are the advantages of dynamic linking?
6. What is compiler? Explain the six phases of a compiler.
7. What is Context free grammar?
8. Write the differences between local and global optimization.

**Section 'B' contains 04 long answer-type questions of 7/5 marks each. Learners are required to answers 02 questions only.**

1. Describe the different types of System Software.
2. Explain role of lexical analyzer.
3. What is parser? Explain the types of parsers.
4. Explain the basic code optimization techniques.