



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

MCA-16/MCA-11 2ND YEAR 4TH 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.