



## UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

MScIT-12 2<sup>nd</sup> YEAR 4<sup>th</sup> SEMESTER ASSIGNMENT*Last Date of Submission: 15 May,2014*

Course Title: System Software

Course Code: MScIT-15

Year: 2013-14

Maximum Marks: 40 Marks

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. Bring out the difference between system software and application software.
2. Distinguish between assembler and interpreter.
3. What are the functions of loader and linker?
4. What do you mean ambiguous grammer? How it can be overcome? Illustrate with an example.
5. What is the role of lexical analyzer?
6. What is a finite automaton? Explain
7. Explain the components of system software.
8. What is LEX? Explain the LEX specification format.

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

1. Define Parsing. What are the goals of parsing? Explain its various types.
2. Explain the difference between top down parsing and bottom up parsing.
3. Explain static and dynamic linking.
4. Explain the following terms:
  - I. Macros and macro processor.
  - II. context free grammars.