



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

MCA 2ND YEAR 4TH SEMESTER ASSIGNMENT

Last Date of Submission: 15 July 2015

Course Title: System Software

Course Code: MCA-15

Year: 2014-15

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. What are Virtual Machine Monitors?
2. What are Link editors and Loaders?
3. What is an assembler?
4. What is an assembler directive?
5. Write the difference between static allocation and stack allocation technique.
6. What is bootstrap loader?
7. What is the main importance of lexical analysis?
8. Define top down and bottom up parser.

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

1. Describe the different types of System Software.
2. Describe the different data structures used and prepared during assembly process.
3. What is compiler? Explain the six phases of a compiler.
4. Explain how information can be accessed using activation record.