



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

MSC(IT)-12
2ND YEAR 4TH SEMESTER ASSIGNMENT

Last Date of Submission: 15 May, 2013

Course Title: System Software.
Year: 2012-13

Course Code: MSc(IT)-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 is compiler? Explain different phases of compilation.
2. Define interpreter. Discuss differences between compiler and interpreter.
3. State differences between a linker and a loader.
4. What is dynamic debugging?
5. What do you mean by code optimization?
6. What is meant by memory allocation? Differentiate between static and dynamic memory allocation scheme.
7. What is an expression tree?
8. Define parsing. What is the role of a parse tree?

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

1. What is system software? Explain the components of system software.
2. Discuss dynamic memory allocation and access in compilation process.
3. Define application software. Discuss differences between system software and application software.
4. What is bootstrap loader? Explain bootstrap loader process.





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