



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

BCA-16/BCA-17 3RD YEAR 6TH 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 Programming

Course Code: BCA-20

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. Define compiler. Mention the different phases of a compiler.
2. What is the purpose of Symbol table?
3. Compare machine language and assembly language.
4. Define loader? What are the functions of loader?
5. What is memory allocation? Discuss static and dynamic memory allocation during compilation of a program.
6. What is scanning and parsing? Differentiate between them.
7. Differentiate between top-down parsing and bottom-up parsing.
8. What do you mean by parsing? Define parse tree.

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

1. Explain three basic features of assembly language programming.
2. Briefly explain a simple bootstrap loader, with an algorithm show the design of a bootstrap loader?
3. Explain the various types of language processors?
4. Explain the difference between compiler and interpreter?