



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

BCA 2ND YEAR 3RD SEMESTER ASSIGNMENT

Last Date of Submission: 15/01/2016

Course Title: Operating System

Course Code: BCA-10

Year: 2015-16

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 thread and its use in Operating System?
2. Write about inter process communication?
3. What is primitive and non-primitive scheduling?
4. What are the common security threats and how all OS deals with them?
5. What is swapping in memory management?
6. Differentiate between sequential access and random access files.
7. What is the difference between authentication and authorization?
8. Explain multiprocessor synchronization.

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

1. Define Operating System. What are different roles that an operating system play in computer?
2. What is deadlock? How an Operating system deals with deadlock detection, recovery & Prevention? Explain in detail.
3. Define different types of scheduling schemes with suitable example.
4. What is Multiprocessor System? Explain the functions and requirement of multiprocessor operating system.