



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

BCA-11/BCA-16 2ND YEAR 3RD SEMESTER ASSIGNMENT

Last Date of Submission: 15/12/2016

Course Title: Operating System

Course Code: BCA-10

Year: 2016-17

Maximum Marks: 30/40

Section 'A' contains 08 short answer type questions of 4/5 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 Operating System.
2. What is demand paging?
3. What is Time Sharing system?
4. Differentiate between Process and Thread?
5. Define the following terms
 - i. Race condition
 - ii. Mutual exclusion
6. What is the basic difference between Preemptive and Non preemptive Scheduling?
7. Differentiate between Deadlock Detection and Deadlock Avoidance.
8. What is Virtual Memory?

Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answers 02 questions only.

1. What is a file pointer? Briefly explain the various operation of a File.
2. Explain the functions of an Operating System.
3. Explain briefly the Process Model with a diagram.
4. Explain the characteristics of distributed algorithm.