



## UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

MScIT-12 2<sup>nd</sup> YEAR 3<sup>rd</sup> SEMESTER ASSIGNMENT*Last Date of Submission: 15 Jan., 2014***Course Title: Operating System****Course Code: MScIT-11****Year: 2013-14****Maximum Marks: 40 Marks**

**Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

1. What is deadlock? Explain.
2. Mention the objectives of file management system.
3. What is thread? Explain.
4. Differentiate the various file access methods.
5. Explain Process Control Block.
6. What is the purpose of Inter Process Communication?
7. What do you mean by multiprogramming?
8. Explain the concept of demand paging.

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

1. Explain Banker's deadlock-avoidance algorithm with an illustration.
2. What are the functions of a Process Management System? Explain.
3. Define the difference between preemptive and non-preemptive scheduling. Give an example.
4. Describe the difference among short-term, medium-term and long-term scheduling.