



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

MCA-II 3rd YEAR 5th SEMESTER ASSIGNMENT

Last Date of Submission: 15 Jan., 2014

Course Title: Linux System Administration

Course Code: MCA-20

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 are the Features of UNIX operating system?
2. Explain briefly the file structure of UNIX.
3. What do you understand by Signal Concepts their importance and how they can be handled?
4. Explain Standard I/O library in detail.
5. Explain File types and permissions.
6. Explain memory Mapping.
7. What do you understand by Streaming and Buffering?
8. Explain system call.

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

1. Explain System call related to Multitasking. What do you understand by race condition Zombie and Orphan?
2. Explain System V IPC in detail.
3. Explain the process of sharing data among parent & Child using Files.
4. Write short notes on
 - a. Binary I/O
 - b. Record Locking
 - c. Pipes
 - d. FIFO
 - e. Job Control