

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)****BCA-II 1<sup>st</sup> YEAR 1<sup>st</sup> SEMESTER ASSIGNMENT**

*Last Date of Submission: 15 Jan, 2015*

**Course Title: Basic of OS and PC Software****Course Code: BCA-03****Year: 2014-15****Maximum Marks: 40 Marks****Section 'A'**

**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 Operating System? Explain the concept of time sharing.
2. Describe different types of operating systems?
3. (i) How is XCOPY a better copy command then COPY?  
(ii) What do you understand by internal and external commands? How are they different?
4. (i) Show the procedure how to set the date and time of the system running on Linux.  
(ii) A file has got a protection 756 (octal). What protections does it really have ?
5. (i) What is icon? Describe any two desktop Icon.  
(ii) What is Menu bar and Toolbar.
6. (i) What is the difference between **cp** and **mv** commands? Explain with an example.  
(ii) How can you access ex commands in vi?
7. What is a difference between an internal and xternal commands.
8. What is real time operating system.

**Section 'B'**

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

1. Explain in detail multithreading models with the help of state diagram.
2. (i) Explain the role of Operatring System with user and system viewpoint.  
(ii) Give the features of symmetric and asymmetric multiprocessing system.

3. Create the hierarchical structure in dos of any directory with their two subdirectory and move their files form one directory to another and rename the existing file after moving them?
4. Write short notes with example:-
  - a) Components of Linux system.
  - b) Process Management in Linux.
  - c) Inter Process Communication.
  - d) Dynamic Loading.
  - e) Process Control Block(PCB).

