

Roll No.....

**1252**

**BCA / M-14**  
**INTRODUCTION TO LINUX**  
**Paper—BCA-362**

Time allowed: 3 hours]

[Maximum marks : 80

Note: Attempt five questions in all, selecting at least one question from each unit.

Question no.1 is compulsory. All questions carry equal marks.

**Compulsory Question**

1. (a) Name various Linux distributions.

(b) What are the various ways to log out from Linux?

(c) Explain any two general purpose commands in Linux.

(d) Discuss the purpose of more filter in Linux.

(e) What is mode?

(f) How can a running process be stopped in Linux?

(g) What are the various working modes in vi editor?

(h) How a shell script is executed in Linux?

8 x2=16

**Unit—I**

2. (a) Explain the booting process in Linux.

8

(b) How many type of users can login in a Unix / Linux Operating System ? Explain different ways to login in a Linux Operating System.

8

3. (a) Compare and contrast Linux with Unix and Windows.

10

(b) Write a short note on Linux architecture.

6

**Unit-II**

4. (a) Explain the purpose of any four regular expression characters.

8

(b) Explain the following filters in brief:

- |             |            |   |
|-------------|------------|---|
| (i) sort    | (ii) wc    |   |
| (iii) cliff | (iv) tmiq. | 8 |

5. Give the purpose and syntax of following Linux commands along with various options:

- |          |           |            |           |
|----------|-----------|------------|-----------|
| (i) Is   | (ii) find | (iii) cat  | (iv) In   |
| (v) comm | (vi) dd   | (viii) man | (viii) cp |

Also give one example in each case. 16

### Unit—III

6. What do you understand by file system in Linux ? Discuss various types of file Systems which are used by Linux. Also describe the components of file system in Linux. 16
7. What is a process? How jobs are controlled in Linux via at, batch, cron and time? Describe. 16

### Unit—IV

8. Write down a shell program to generate a list of first N prime numbers. 16
9. (a) Write and explain the various operators that can be applied for File Checking. 8
- (b) Describe various types of shell variables in Linux with the help of suitable examples. 8