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BCA/M-15

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.
All questions carry equal marks.

Compulsory Question

1. (a) What are the various types of shells in Linux?
(b) What are the various ways for shutting down Linux operating system?
(c) Explain any two file-oriented purpose commands in Linux.
(d) Discuss the purpose of sort filter in Linux.
(e) How many types of files exist in Linux?
(f) How a process can be started in Linux?
(g) What are the various shell variables in Linux?
(h) How a shell script is created in Linux?

UNIT-I

2. (a) Describe various features of Linux operating system.
(b) Differentiate between Linux and UNIX.
3. (a) Name various distributions of Linux. Describe the architecture of Linux operating system.
(b) Describe the procedure for starting, logging in and logging out in Linux.
Can a simple user, who is not an administrator, shut down the system? If yes, how?

UNIT-II

4. Write and explain any two commands in each category:

- (i) General Purpose commands.
 - (ii) Directory-oriented commands.
 - (iii) Communication-oriented commands.
 - (iv) Process- Oriented commands.
5. (a) What is the purpose of grep command ? How grep is different from fgrep and egrep? Explain with suitable examples.
- (b) Explain the following regular expressions in detail:
- (i) + (ii) ^ (iii) [] (iv)*

UNIT-III

6. Describe the structure and components of file system in Unix/Linux. What are the standard file systems that are supported by Unix/Linux? Explain.
7. What is Process? Describe the procedure for creating and stopping a process. Also discuss the purpose of init process.

UNIT-IV

8. (a) Explain various arithmetic operators used in shell programming.
- (b) Describe various control structures in shell with suitable examples.
9. (a) What is vi editor? Discuss at least two commands in each working mode of vi editor.
- (b) Write a shell script to find reverse of a number.