

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9 Sub. Code :

1	7	5	7	9
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Exam. Code :

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B.A./B.Sc. (General) 6th Semester

(2056)

INFORMATION TECHNOLOGY (Elective)

Paper-B : Linux Administration

Time Allowed : Three Hours] [Maximum Marks : 65

Note :— Attempt **five** questions in all by selecting **one** question from each Unit. Entire Question Number **IX** is compulsory.

UNIT-I

I. (a) Describe the need and services of Linux Operating System.

(b) Differentiate between Batch systems and Time-sharing Systems. 7, 6

II. Explain the usage of the following in Linux with syntax and examples:

(a) 'shutdown' Command

(b) 'who' Command

(c) 'passwd' Command. 5, 4, 4

UNIT-II

- III. (a) What do you understand by Input and Output Redirection? Explain with examples.
- (b) Explain the use of wildcards in Linux with suitable examples. 7, 6
- IV. (a) Explain the use of 'cd', 'mkdir', 'rm' and 'rmdir' commands. Give suitable examples.
- (b) Explain the commands used for changing File and Directory permissions. 7, 6

UNIT-III

- V. (a) How is 'tcsh' shell customized? Explain with examples.
- (b) Explain the use of Positional Parameters and built-in shell variables. 7, 6
- VI. (a) Explain the use of conditional statements in Linux with syntax and examples.
- (b) Explain the use of 'while' and 'until' Iteration statements with examples. 7, 6

UNIT-IV

- VII. Explain the following in the context of Linux:
- (i) Creating a new File System with syntax.
- (ii) Checking File System
- (iii) Resetting forgotten root password. 5, 4, 4

- VIII. (a) Explain the use of mounting and unmounting of File system.
- (b) How are backups managed in Linux? Give suitable examples.

7, 6

(Compulsory Question)

IX. Write short answers:

- (i) Differentiate between absolute and relative filenames.
- (ii) What is the role of 'shift' command in Shell programming?
- (iii) What is the benefit of using 'umask' setting?
- (iv) Explain the use of 'su' command.
- (v) What is LILO?
- (vi) What is DNS?
- (vii) Explain the use of 'ping' command.

6×2+1