

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**B.A./B.Sc. (General) 6th Semester
(2042)**

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 Section. Entire Question No. **IX** is compulsory.

SECTION—A

- I. (a) Describe the working of Multi-programmed Batch Systems and Time Sharing Systems.
- (b) Differentiate between Distributed Systems and Parallel Systems. 7,6
- II. (a) Write steps to create Linux File-system partition using LILO.
- (b) How are passwords managed in Linux ? Who can change anybody's password and how ? 7,6

SECTION—B

- III. (a) What do you understand by Input and Output Redirection ? Write command to store output of long listing of current directory to a file "list.txt".

- (b) Describe the common type of files available in Linux. Write rules to name an ordinary file in Linux. Also write the default permissions for an ordinary file and a directory. 7,6
- IV. (a) What is a Shell ? Describe the commonly used Shells. Also describe default Prompt and the commands used to change Primary and Secondary Prompts.
- (b) How are permissions of a file changed ? Give commands and examples. 7,6

SECTION—C

- V. Describe the following w.r.t. tcsh :
- (i) Positional parameters and shift command
- (ii) Case statement with suitable example. 7,6
- VI. (a) What is a shell script ? Write a shell script to Accept user's age, if it is greater than 17, then user is eligible to vote, display suitable messages.
- (b) Describe various modes of vi Editor and the main commands used in each mode. 7,6

SECTION—D

- VII. Describe the following in the context of Linux :
- (i) Mounting and unmounting of file systems
- (ii) Backups using various options of tar command. 7,6

- VIII. (a) Explain the use of any three configuration files in Linux.
- (b) Describe the use of ping, netstat and mail related commands.

7,6

(Compulsory Question)

IX. Write short answers :

- (i) Write Linux command to check the PID and PPID of a process.
- (ii) What is LILO ?
- (iii) Write Linux command to display list of files and directories starting with A.
- (iv) Explain the use of select statement.
- (v) What is the role of back quotes in Linux ?
- (vi) How a forgotten root password is reset ?
- (vii) What is DNS ?

6×2+1