(i) Printed Pages: 3   Roll No. ....

(ii) Questions   : 9   Sub. Code : | 0 | 5 | 7 | 9 |
                           Exam. Code : | 0 | 0 | 0 | 6 |

B.A./B.Sc. (General) 6ᵗʰ Semester
1059
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 Number IX is compulsory.

SECTION—A

I. Differentiate the following :
    (a) Multi-programmed Systems and Time Sharing Systems
    (b) Parallel Systems and Distributed Systems.   13

II. (a) How is Linux installed ? Write steps. Also write down the issues that should be carefully handled while installing Linux.
    (b) Explain the Linux shutdown command and the options used with it.   8,5

SECTION—B

III. (a) What is the role of environment variables ? Describe the use of any four environment variables.
    (b) Describe Linux commands used to copy, move and remove files. Also describe the use of wildcards in these commands.   7,6

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IV. (a) What do you understand by File and Directory permissions ? Write commands used to manage these ownerships.

(b) What is Input and Output redirection ? Give examples.

7,6

SECTION—C

V. (a) What do you understand by positional parameters ? How does shift command work with positional parameters ?

(b) Explain the usage of 'case' control construct. Write a menu driven shell scripts which executes Linux commands on providing a menu choice by the user. 7,6

VI. (a) Differentiate between 'while' and 'until' loop with the help of examples.

(b) Write short note on vi editor. Explain its various modes. Write commands which are used for deleting text, searching and replacing text and copying and moving text. 7,6

SECTION—D

VII. (a) Explain mounting and un-mounting of a File system.

(b) How are files compressed in Linux ? Give examples.

7,6

VIII. (a) Explain the following in the context of Linux :

(i) Netstat

(ii) Ping

(iii) NFS

(iv) NIS.

(b) How does 'mail' command work in Linux ? 7,6

IX. Write short answers (Compulsory Question) :

    (i)   Explain the 'su' command used in Linux.

    (ii) How can a Linux user view the long listing of files and directories of current directory ?

    (iii) What is the difference between the command "kill 123" and the command 'kill-9 123" ?

    (iv) How can a user change his password ?

    (v) What is TCP/IP ?

    (vi) What will you do, if you forget the root password ?

    (vii) What is the name of Linux's own file system ?

$6\times2+1$