(i) Printed Pages : 3

(ii) Questions : 9

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

(2054)

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 No. **IX** is compulsory.

UNIT—1

I.   (a) What is Operating System ? Explain its need and services.

     (b) Illustrate essential properties and working of the Distributed Systems.   7,6

II. (a) Write minimum system requirements to install Linux on a system.

     (b) Explain the use of fdisk command in Linux.

     (c) Explain the use of Shutdown command in Linux.   5,5,3

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UNIT—2

III. (a) How are processes managed in Linux ? Explain various commands used to manage them.

   (b) Explain the use of grep command in Linux.   7,6

IV. (a) Explain the commands used to move, copy and remove the files in Linux. Give examples.

   (b) Explain the important directories of Linux File system. 7,6

UNIT—3

V. (a) Explain the use of Positional parameters and built-in shell variables.

   (b) Explain the syntax and use of 'if' and 'case' control statements in Linux.   7,6

VI. (a) Explain the use of shift command in Linux. Give examples.

   (b) How are functions managed in Linux ? Write a function that finds the sum of three variables.   7,6

UNIT—4

VII. (a) Explain the use of mounting and unmounting of file system.

   (b) Explain the use of gzip command in Linux.   7,6

VIII. (a) Explain the use of tar command for taking backups in Linux. Give examples.

   (b) Explain commands : NIS, NFS, Ping.   7,6

IX. Write short answers :

    (i)   Explain the use of date command and its various options.

    (ii)   Explain the use of any four environment variables.

    (iii) Write command which redirects the output of '*ls* -1' to a file 'testfile'.

    (iv) Explain the command which is used to view UMASK settings.

    (v)   Name any four commonly used shells.

    (vi) Name any two configuration files of Linux.

    (vii) What is LILO ?   6×2+1