

(i) Printed Pages: 4]

Roll No.

(ii) Questions : 9]

Sub. Code :

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Exam. Code :

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

1047

INFORMATION TECHNOLOGY

(Linux Administration)

(Elective)

Paper : B

Time : 3 Hours]

[Max. Marks : 65

Note :- Attempt *five* questions in all by selecting *one* question from each Section. Question No. 9 is compulsory.

Section-A

1. (a) Differentiate between Parallel systems and Distributed systems.
- (b) Define essential properties and working of the Time Sharing Operating Systems with diagram. 7,6

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(1)

Turn Over

2. Explain the following terms and procedures w. r. t.

Linux Installation :

- (a) Formatting the partitions
- (b) Setting up the Ethernet
- (c) Swap Space partitions
- (d) File System partitions

13

Section-B

3. (a) Explain the purpose of directories found at the root (/) level of Linux.

(b) Explain the commands *pwd*, *cd*, *md* and *rd* in Linux with examples.

7,6

4. (a) Describe various types of a process. Explain various commands used for managing them.

(b) What is the purpose of *grep* command ? Explain its usage with various regular expressions. Give examples.

7,6

Section-C

5. (a) Describe the main features of tcsh.
(b) Write the syntax and usage to 'test' command with suitable examples. 7,6
6. Describe syntax and usage of the following :
- (i) if statement
 - (ii) case statement
 - (iii) for statement
 - (iv) while statement 13

Section-D

7. What is Linux system administration ? Explain the following in the context of Linux system administration :
- (i) Compressing files with gzip
 - (ii) Backups with tar 13
8. Explain the following in the context of Linux :
- (i) Setting the system name
 - (ii) Resetting forgotten root password
 - (iii) Setting the login message
 - (iv) Configuration files 13

Unit-IV

(Compulsory Question)

9. Write short answers :

- (i) How is online help available in Linux ?
- (ii) How are directories named in Linux ?
- (iii) Write about built-in shell variables.
- (iv) How text is searched and replaced using 'vi' editor ?
- (v) What is mounting in Linux ?
- (vi) What is the role of 'netstat' command ?
- (vii) What is the purpose of 'who' command ? $6 \times 2 + 1$