

Roll No.

8711

Printed Pages : 3

BT-7 / M 12

**LINUX FOR INFORMATION TECHNOLOGY
APPLICATIONS**

Paper-IT-451

Time allowed : 3 hours(Maximum marks : 75)

Note : Attempt five questions in all, selecting at least one question from each unit.

Unit-I

1. (a) Differentiate between `modules.conf` and `rc.local`.
(b) Describe the commands for renaming a file, deleting a directory and change a file's ownership in Linux. 8,7
2. (a) What is the command for line, word and character count in Linux ?
(b) Describe the meaning of following commands
 (i) `ln`
 (ii) `df`
 (iii) `touch`
 (iv) `modprobe`
 (v) `make` 5,10

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(2)

Unit-II

3. (a) Explain the concept of transport protocol ports. What are well-known and registered ports ? Explain dynamic ports.
(b) Explain how files can be shared over the network using NFS. What is RPC ? How does it work ? 8,7
4. (a) Why `inetd` is called super server daemon ? What is `inetd.conf` ? Give an example of entry in `inetd.conf`. Now explain it.
(b) Explain the types of statistics is provided by `netstat` tool. 9,6

Unit-III

5. (a) What do you mean by domain control ? Why is needed in file sharing on a network ? What are the three basic types of domain controllers in Samba ?
(b) What are regular expressions ? Explain its types. Write a `sed` script to replace string "Exercise" to "Yoga" present in a file. 9,6

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(3)

6. (a) Explain the meaning of run level. What are run levels 0, 1, 3, 5, and 6. How the behaviour of each run level is decided ?
- (b) Explain the method for file sharing and printing in Linux. 8,7

Unit-IV

7. (a) Discuss the advantages of IMAP over POP.
- (b) How do you handle spam and virus problems of Linux ? 6,9
8. (a) What is port scanning ? Argue in its favour and opposition. Give example of port scanning tool.
- (b) Describe features of cluster management tools. 5,10