

2023

INFORMATION TECHNOLOGY

Paper : INT-VE-5026

(System Administration using Linux)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions as directed :

1×7=7

(a) Write the command to delete a file in Linux.

(b) Core of Linux Operating System is called _____.

(Fill in the blank)

(c) Write the command to destroy a process in Linux.

(d) All device files are stored in which directory in Linux?

(e) 'PwD' command is used in Linux for what purpose?

- (f) Which command is used in Linux to rename a file?
- (g) Write the command is used to create a blank file in Linux.

2. Answer *any four* of the following questions : 2×4=8

- (a) Differentiate between hard-link and soft-link.
- (b) Mention any two filters used in Linux.
- (c) How to exit from VI Editor?
- (d) Name two important file systems commonly used in Linux. x fs
- (e) State the command for checking IP-Address of a computer.

3. Answer *any three* of the following questions : 5×3=15

- (a) What is kernel? What is the fork() system call?
- (b) Describe the base features of Linux OS.
- (e) Write any five basic file management commands of Linux with suitable example.
- (d) What do you mean by Linux shell? Explain its types.
- (e) State the use of 'ls' command. Give four suitable examples.

(3)

4. Answer the following questions (any *three*):
10×3=30

- (a) What is system administrator? Explain the duties and responsibilities of system administrator.
- (b) Write short notes on the following :
 - (i) DNS (Domain Name System)
 - (ii) FTP (File Transfer Protocol)
- (c) Explain the Linux file system with suitable diagram.
- (d) What is Linux? Define the basic components of Linux.
- (e) What is shell script? Write one shell script to add two members input by user.
- (f) What are the types of network bonding?
- (g) What is process and its states?
