

TIME: 2:30hrs

MARKS:75

Q. 1 Attempt the following (Any FOUR)

(20M)

- A. List Linux Distributions. Discuss any four of them.
- B. Write any five features of Linux operating system.
- C. Diagrammatically explain Linux architecture.
- D. Explain the activities carried by shutdown process in Linux.
- E. Write a note on Linux Community.
- F. Define process. Explain ps command with its options and usage.

Q. 2 Attempt the following (Any FOUR)

(20M)

- A. What is gedit and its features? Explain.
- B. Explain any five general purpose utility commands with example. S
- C. Define command alias. How to create it? Give suitable examples.
- D. Discuss File attributes in Linux.
- E. How to modify permissions of files in Linux using chmod command? Explain.
- F. List compression utility commands. Explain any two with examples.

Q. 3 Attempt the following (Any FOUR)

(20M)

- A. What are the uses of root user in Linux system?
- B. Write a note on FTP.
- C. What is the purpose of commands:- **ssh, ping, hostname, telnet, route**. Give suitable example.
- D. Explain Boolean operators -a, -o and ! used in shell scripting with an example.
- E. Define regular expression. What is the purpose of the following regular expression characters:- **^, \$, *, ?**
- F. Write a shell script to read a month number from the user and display corresponding month name.

Q. 4 Attempt the following (Any THREE)

(15M)

- A. Give the importance of Linux in software ecosystem as Web Servers and Mobiles.
- B. What is the purpose of following environment variables?
 - a. HOME, PS1, SHELL, PATH, PS2
- C. What are the rules for having passwords in Linux security?

- D. Give the purpose of the following directories:-
- /bin, /etc, /home, /sbin, /var
- E. List any three features of awk. Give its general syntax. Explain it with two different examples.
