

Time 2½ hours

Total Marks: 75

N.B.: (1) **All** questions are **Compulsory**.(2) Make **suitable assumptions** where ever necessary and **state the assumption made**.(3) Answers to the **same questions** must be **written together** .(4) Numbers to the **right** indicates **marks**.(5) Draw **neat labeled diagrams** wherever **necessary** .(6) Use of **Non-programmable** calculators is **allowed**.**Q 1. Attempt any three of the following :**

15

- a. What are the duties of Linux Administrator? Explain
- b. Explain the use of Kill Command
- c. What is RPM? Explain
- d. Explain the use of YUM
- e. What is Bash Shell? Explain
- f. Write note on Job Scheduling

Q 2. Attempt any three of the following :

15

- a. Discuss the Linux partitions and Logical Volumes.
- b. Explain the Linux File system.
- c. What is Network Manager? Explain
- d. Discuss different types of users in Linux.
- e. Write note on : File access permission in Linux
- f. Write note on Snapshots.

Q 3. Attempt any three of the following :

15

- a. What is Firewall? Explain its working
- b. Write note on SSL
- c. What is NFS? Explain
- d. Explain the FTP Services
- e. Write note on iptable.
- f. Write note on Samba File Server

Q 4. Attempt any three of the following :

15

- a. Write note on DNS
- b. Write note on DHCP Server
- c. Write note on Apache Web Server
- d. Explain Primary Name Server
- e. Explain DNS Lookup process
- f. What are Apache Log Files

Q 5. Attempt any three of the following :

15

- a. What is Shell Script? Explain
- b. Write note on GRUB
- c. What is clustering? Explain cluster based services
- d. Write note on GFS2 File system
- e. What is Kickstart File? Explain
- f. Write note on TFTP? Explain