

T.Y. B.Sc. Comp Sci Sem. V,

date 18/2/2025

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:**
1. All question are compulsory.
 2. Figures to the right indicate full marks.

- Q.1** Attempt any four of the following. **20**
- A What are different commands for process-management?
 - B Discuss the difference between piping and redirection with the help of an example
 - C Write a short note on bash.
 - D How to set up your own repository?
 - E With the help of an example, write the steps to mount a device in Linux.
 - F Explain installing & updating package with YUM?
- Q.2** Attempt any four of the following. **20**
- A Discuss the steps to configure key based SSH authentication.
 - B Explain the user information configuration file
 - C What are runlevels in Linux? Explain the commands used to manage services
 - D Discuss the steps to create a swap file
 - E What are different SSH security settings? Explain.
 - F Explain the function of passwd command with its option?
- Q.3** Attempt any four of the following. **20**
- A Write steps to set up a Samba server with example?
 - B What are the modules in firewall? Explain the limit module
 - C List the steps to encrypt, share and decrypt files using GPG
 - D State the steps to setup a firewall that allows SSH packets.
 - E Write a short note on DNS and its hierarchy?
 - F With the help of an example, explain exporting and mounting of NFS share.

Q.4 Attempt any three of the following.

15

- A** List the steps to configure DHCP for PXE boot.
- B** Explain the steps to setup a quorum disk.
- C** Discuss the various ways in which a shell script can be executed.
- D** Write a shell script to add ten users, remove their passwords and add them to the group students. Use for loop.
- E** Discuss the role of MUA, MTA, and MDA in the email process.
- F** Explain the DHCP server configuration.
