



35325-44511



BRAINWARE UNIVERSITY

Library
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Term End Examination 2025-2026

Programme – B.Sc.(ANCS)-Hons-2024/B.Sc.(ANCS)-Hons-2025

Course Name – Linux Administration

Course Code - BNC27102 (T)

(Semester II)

Full Marks : 40

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 10=10

1. Choose the correct alternative from the following :

- (i) Find the year Linux was first released.
 - a) 1984
 - b) 1991
 - c) 1995
 - d) 2000
- (ii) Choose the command to display the current directory.
 - a) pwd
 - b) ls
 - c) cd
 - d) mkdir
- (iii) Relate the "Bash" shell to its full form.
 - a) Bourne Again Shell
 - b) Basic Shell
 - c) Backup And Shell
 - d) Binary Assigned Shell
- (iv) Choose the Linux directory structure by identifying where user data is stored.
 - a) /bin
 - b) /etc
 - c) /var
 - d) /home
- (v) Find the default superuser in Linux.
 - a) admin
 - b) super
 - c) root
 - d) sudo
- (vi) Write the role of the SWAP partition in handling memory.
 - a) Increases the size of the root file system.
 - b) Stores kernel images during boot.
 - c) Used when the physical RAM is full.
 - d) Creates a backup for the home directory.
- (vii) Relate the function of systemctl to package management in Linux.
 - a) Installs software packages directly.
 - b) Deletes outdated software packages.
 - c) Manages system services related to packages, like enabling or starting services.
 - d) Monitors network performance.
- (viii) Translate the term "rpm" in the context of Linux package management.
 - a) Red Hat Package Manager, used for managing packages.
 - b) Remote Package Module, for system updates.

- c) Readable Package Management, for software installation. d) Real-time Package Monitor, used for system monitoring.
- (ix) List the command to check the status of a service in a RedHat system.
- a) systemctl status service_name b) service service_name status
- c) chkconfig service_name --status d) ps -aux service_name
- (x) Make use of the package remove function in RedHat Linux. What does it do?
- a) It removes installed software packages from the system. b) It updates outdated software packages.
- c) It installs new software from a repository. d) It configures system services.

Group-B

(Short Answer Type Questions)

3 x 5=15

2. How does the Linux operating system differ from other operating systems? (3)
3. Describe a scenario where using the Sticky Bit on a shared directory is essential for maintaining data security. (3)
4. Describe the structure and limitations of the Master Boot Record (MBR). (3)
5. Compare the man and info documentation systems in Linux. (3)
6. Explain the difference between gzip and bzip2 compression tools in Linux. (3)

OR

Differentiate between hard links and soft (symbolic) links in Linux. (3)

Group-C

(Long Answer Type Questions)

5 x 3=15

7. What is the purpose of the /etc/shadow file? (5)
8. Explain the concept and functionality of the RPM package manager. (5)
9. Explain the concepts and components of Logical Volume Management (LVM). (5)

OR

Compare a command-line shell and a graphical user interface (GUI). (5)

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