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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/
BACHELOR OF COMPUTER APPLICATIONS (CYBER
SECURITY)/BACHELOR OF SCIENCE (CYBER SECURITY)
EXAMINATION : DECEMBER-2025
SEMESTER - V

Sub: Linux/Operating system Linux

Total Marks : 60

Time: 10.00am to 12.30pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(05)

1. To set password command is used as _____.
 - a) changep
 - b) password
 - c) Passwd
 - d) netuser
2. Plain text passwords are stored in file _____.
 - a) /etc/passwd
 - b) /etc/inittab
 - c) /etc/shadow
 - d) /etc/group
3. _____ part of the operating system first loads into the memory.
 - a) Shell
 - b) Utilities
 - c) Kernel
 - d) Hardware
4. _____ feature of Linux supports multiple users to work on the same system of same time.
 - a) Multi-tasking
 - b) Multiuser
 - c) Network-support
 - d) Network server
5. tar command is used for _____.
 - a) for backup
 - b) to delete file
 - c) To record memory
 - d) To edit zip

Q.2. State True/False.

(05)

1. Root user has user id as 0.
2. MD5 stands for Message Digestive 5.
3. ps-a command is used for includes process from all terminals.
4. Process Patterns can be defined using command Cgrep.
5. The cron mechanism is controlled by a process Crond.

Q.3. Answer the following. (Solve any 5)

(10)

1. State Primary advantages of Linux.
2. Explain the use of inode in Linux.

3. Define the term soft links.
4. Explain working of sort command.
5. What is systemd process?
6. Define the Logs files.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Explain the history command & the options to use the history command.
2. State Primary advantages of Linux.
3. Explain ACL in Linux with examples.
4. Explain the working of dump command with example.
5. Explain kernel space and user space with diagram.
6. List the different shells used in Linux.
7. Explain user & group administration in detail.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Explain the special permissions such as Sticky bit, SUID & SGID in detail.
 2. List all common redirection operators & explain redirecting input & output.
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