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BACHELOR OF COMPUTER APPLICATIONS
(B.C.A.)(044)/SPECIALIZATION IN CYBER SECURITY (464)
EXAMINATION: MAY/JUNE-2026
SEMESTER - V

Sub: Linux / Operating system - Linux
(BCA-542-20/BCA-CS-542-20/BCA23-502/BCAC23-502)

Date : 04/06/2026

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. The UID for root user is _____.
a) zero
b) one
c) thousand
d) None of above
2. _____ directory contains user data.
a) /
b) /root
c) /home
d) /etc
3. To change the file and directory permissions _____ command is used.
a) chmod
b) chown
c) chgrp
d) None of above
4. To change the user passwords in Linux _____ command is used.
a) password
b) passwd
c) change
d) None of above
5. To send the signals to a process _____ command is used.
a) kill
b) signal
c) SIGNAL
d) None of above

Q.2. State True/False.

(05)

1. To list the files and directories in Linux ls command is used.
2. In Linux, user names are not case sensitive.
3. The VIM editor has two modes of operation.
4. To view the processes running in Linux ps command is used.
5. First process in Linux is systemd.

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

(10)

1. List UNIX and Linux Flavors (Names)
2. Define user space in Linux.
3. List different shells used in Linux.
4. What is the use of man and info command in Linux? Explain with examples.
5. List the types of file permissions in Linux with its numeric value.
6. What is the use of piping in Linux? Explain with example

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

1. Explain ls, cp and mv commands with options and examples.
2. Write a stepwise procedure to create data partition, formatting and mounting in Linux.
3. Explain the use of tar command in Linux with various options and examples.
4. Explain the working of yum command with options and examples
5. Explain useradd and groupadd and passwd commands with options and examples
6. Explain use of crontab command with examples
7. What is the use of VIM editor? State its modes of operations, advantages and disadvantages.

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

1. Write a stepwise procedure to install Linux operating system in detail.
 2. Explain working of any four network management commands with various options and examples.
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