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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
EXAMINATION: JUNE - 2025
SEMESTER - V
Sub: Linux (BCA –542-18)

Date : 12/06/2025

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)

- _____ directory contains sharable library files and loadable kernel modules.
 - /lib
 - /temp
 - /dev
 - /var
- In linux, _____ manages the entire operating system.
 - swap
 - kernel
 - library
 - shell
- _____ command is used to create an empty file.
 - touch
 - cat
 - mkfile
 - gedit
- _____ allows keys to be used for Cursor Movement, copying, Cutting & Pasting Text.
 - Update
 - Exit
 - Insert
 - Command
- The newly created directories will have the default permission set as _____.
 - 775
 - 664
 - 777
 - 575

Q.2. State True/False.

(05)

1. The top most directory in Linux known as root directory and it is identified as single letter /.
2. YUM is used to solve the problem of dependency.
3. Head command is used to display whole contents of a file at a time.
4. In VI editor dl command is used to delete the entire line.
5. User names and UIDs are stored in /etc/usr file.

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

(10)

1. What is inode in Linux?
2. List the different shells used in Linux.
3. Explain working of grep command.
4. What is the use of sudo command in Linux?
5. What is the use of systemctl?
6. Explain kernel space in linux.

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

1. Explain in detail Linux File System Hierarchy.
2. List all the commands with their detailed options to move files & directories.
3. Explain how to change, delete & yank the text in detail.
4. Explain files & directories permissions in Linux in detail.
5. Explain tar command with example.
6. Explain disk partitioning and formatting in detail.
7. Differentiate between Ipv4 and Ipv6.

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

1. Explain any five basic Linux commands.
 2. List & explain the advantages, disadvantages & modes of the VIM editor.
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