Started on	Tuesday, 28 October 2025, 5:38 PM
State	Finished
Completed on	Tuesday, 28 October 2025, 5:45 PM
Time taken	6 mins 58 secs
Marks	8.00/10.00
Grade	**80.00** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

In Linux, which command displays real-time I/O statistics for all storage devices?

- ● a. iostat -xz 1
- ○ b. du -sh
- ○ c. df -h
- ○ d. lsblk -f

Question 2

Complete

Mark 1.00 out of 1.00

The command rsync -avz /data/ user@192.168.1.5:/backup/ is used for:

- ○ a. Cloning system partitions.
- ● b. Synchronizing data directories with compression.
- ○ c. Backing up only changed files with checksum verification.
- ○ d. Mounting a remote directory.

Question 3

Complete

Mark 1.00 out of 1.00

What does the following command do? find /var/log -type f -mtime +7 -exec rm {} \;

- ○ a. Displays log files larger than 7 MB.
- ○ b. Deletes empty directories in /var/log older than 7 days.
- ○ c. Compresses logs older than 7 days.
- ● d. Finds and deletes files in /var/log modified more than 7 days ago.

Question 4

Complete

Mark 1.00 out of 1.00

What is the effect of the following command? chmod 2755 mydir

- ⦿ a.   Gives owner all permissions and sets SGID bit.
- ○ b.   Makes the directory readable and executable by all users.
- ○ c.   Makes directory immutable.
- ○ d.   Removes write permission for group.

Question 5

Complete

Mark 1.00 out of 1.00

What will be the output of the command below if file1.txt does not exist? cat file1.txt >> output.txt

- ⦿ a.   Displays error but still creates/updates output.txt.
- ○ b.   Creates file1.txt automatically.
- ○ c.   Appends "file1.txt not found" to output.txt.
- ○ d.   Displays an error and terminates.

Question 6

Complete

Mark 1.00 out of 1.00

Which command displays both file permissions and hidden files in a directory in long listing format?

- ⦿ a.   ls -la
- ○ b.   ls -a
- ○ c.   ls -l
- ○ d.   ls -h

Question 7

Complete

Mark 1.00 out of 1.00

Which command would you use to count the number of running processes for a specific user named john?

- ○ a.   ps aux | grep john
- ⦿ b.   ps -u john | wc -l
- ○ c.   pgrep john | wc
- ○ d.   top | grep john

Question 8

Complete

Mark 1.00 out of 1.00

Which of the following commands correctly displays the top 10 CPU-consuming processes?

- ○ a.   cat /proc/cpuinfo | head
- ○ b.   ps -ef | sort -r
- ◉ c.   ps aux --sort=-%cpu | head -10
- ○ d.   top -10

Question 9

Complete

Mark 0.00 out of 1.00

Which statement about the umask command is true?

- ○ a.   It assigns ownership of files to a specific group.
- ○ b.   It locks the user account after failed login attempts.
- ○ c.   It defines the default permission mask for new files and directories.
- ◉ d.   It sets the maximum permission allowed for any user.

Question 10

Complete

Mark 0.00 out of 1.00

You run the command: tar -czvf backup.tar.gz /home/user. What does each flag mean?

- ○ a.   Create, compress (gzip), verbose, output to file
- ○ b.   Copy, zero, verbose, file
- ○ c.   Compress, zip, verify, folder
- ◉ d.   Create, zip, verbose, file