

Started on Tuesday, 28 October 2025, 3:56 PM**State** Finished**Completed on** Tuesday, 28 October 2025, 4:03 PM**Time taken** 7 mins 12 secs**Marks** 7.00/10.00**Grade** 70.00 out of 100.00**Question 1**

Complete

Mark 0.00 out of 1.00

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

- ☒ a. df -h
- ☐ b. lsblk -f
- ☐ c. du -sh
- ☐ d. iostat -xz 1

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

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

Question 4

Complete

Mark 0.00 out of 1.00

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

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

Question 5

Complete

Mark 0.00 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 an error and terminates.
- ☐ b. Creates `file1.txt` automatically.
- ☒ c. Appends "file1.txt not found" to `output.txt`.
- ☐ d. Displays error but still creates/updates `output.txt`.

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 -a`
- ☐ b. `ls -h`
- ☒ c. `ls -la`
- ☐ d. `ls -l`

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. `pgrep john | wc`
- ☐ b. `ps aux | grep john`
- ☒ c. `ps -u john | wc -l`
- ☐ 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 1.00 out of 1.00

Which statement about the `umask` command is true?

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

Question 10

Complete

Mark 1.00 out of 1.00

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

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