

Unix assessment BC-101

Points: 18/25

✓ **Correct** 1/1 Points

1. Scenario: You are the system administrator of a Unix server, and you need to schedule regular system updates to ensure security and stability. Which cron entry would you use to run the system update script every first day of the month at 3 AM?

- ☒ 0 3 1 * * /path/to/system-update-script.sh
- ☐ 0 3 * * 1 /path/to/system-update-script.sh
- ☐ 0 3 * * 2 /path/to/system-update-script.sh
- ☐ 0 3 1 * 7 /path/to/system-update-script.sh

✓ **Correct** 1/1 Points

2. In Unix-like operating systems, which command is used to display the manual pages for other commands, providing detailed information on their usage and options?

- ☐ help
- ☒ man

- ☐ info
- ☐ usage

✓ **Correct** 1/1 Points

3. Scenario: You are the system administrator of a Unix server used for hosting a web application.

Your team needs to perform daily backups of the application's database and files. Describe how you would set up a cron job to automate this backup process.

Which cron entry would you add to run the backup script every day at 6AM?

- ☐ 0 6 * * 6 /path/to/backup-script.sh
- ☐ 0 18 * * * /path/to/backup-script.sh
- ☒ 0 6 * * * /path/to/backup-script.sh
- ☐ 0 23 * * * /path/to/backup-script.sh

✗ **Incorrect** 0/1 Points

4. You have a file named "employees.txt" that contains the following lines:

```
Ritu|30|Manager  
Shiv|30|Developer  
Akash|28|Designer  
Ritesh|22|Tester
```

You want to extract and print the ages of all employees who are not developers. Which cut and grep command combination would you use?

- ☒ cut -d '|' -f 2 employees.txt | grep -v 'Developer'
- ☐ cut -d '|' -f 2 employees.txt | grep 'Developer' -v
- ☐ cut -f 2 -d '|' employees.txt | grep -E '^(?!Developer)'

☐ `grep -v 'Developer' employees.txt | cut -d '|' -f 2`

✓ **Correct** 1/1 Points

5. You want terminate a process with process id 1080 forcefully. Which command you use

☐ `force -9 1080`

☒ `kill -9 1080`

☐ `top -9 1080`

☐ `ps -9 1080`

✓ **Correct** 1/1 Points

6. You have a data file named "inventory.txt" with product information, including name and quantity in column 1 and 2 respectively in stock. You want to generate a report that lists products with a quantity greater than 50. Which awk command accomplishes this?

☒ `awk '$2 > 50 {print $1}' inventory.txt`

☐ `awk '$1 > 50 {print $2}' inventory.txt`

☐ `awk '$2 < 50 {print $1}' inventory.txt`

☐ `awk '$1 < 50 {print $2}' inventory.txt`

✗ **Incorrect** 0/1 Points

7. You are asked to change the owner of a file.txt file to "newuser". Which chown command would you use to fulfill this task.

- ☐ chown newuser file.txt
- ☐ chown -u newuser file.txt
- ☐ chown user=newuser file.txt
- ☒ chown owner=newuser file.txt

✓ **Correct** 1/1 Points

8. To search for lines in a file that contain either "apple" or "orange," which grep regular expression should you use?

- ☐ grep "apple||orange" file.txt
- ☐ grep "apple&orange" file.txt
- ☐ grep "apple,orange" file.txt
- ☒ grep "apple\\|orange" file.txt

✓ **Correct** 1/1 Points

9. Which chmod command would you use to give the owner of a file read and write permissions while allowing the group and others to only read the file?

- ☒ chmod 644 file.txt
- ☐ chmod 744 file.txt
- ☐ chmod 755 file.txt
- ☐ chmod 666 file.txt

✗ **Incorrect** 0/1 Points

10. Consider the following shell script:

```
#!/bin/bash

# Prompt the user for input
echo "Enter a number: "
read num

if [ "$num" -gt 0 ]; then
    echo "The number is positive."
elif [ "$num" -lt 0 ]; then
    echo "The number is negative."
else
    echo "The number is zero."
fi
```

i) What output do you get if you insert "Hello" in input field

- ☒ The number is positive.
- ☐ The number is negative.
- ☐ The number is zero.
- ☐ All of the above

✓ **Correct** 1/1 Points

11. abc.txt file was accessed without your permission. To check at what time it was accessed which command do you use.

- ☐ ls -l abc.txt
- ☒ stat abc.txt
- ☐ ll abc.txt

☐ None

✓ **Correct** 1/1 Points

12. You have a configuration file named "app_config.conf" that contains sensitive information such as API keys. You need to use sed to replace all instances of the old API key (let's say "OLD_API_KEY") with a new one ("NEW_API_KEY"). Which sed command would you use for this task?

☒ sed 's/OLD_API_KEY/NEW_API_KEY/g' app_config.conf

☐ sed 's/NEW_API_KEY/OLD_API_KEY/g' app_config.conf

☐ sed 'OLD_API_KEY/NEW_API_KEY/g' app_config.conf

☐ sed 's/OLD_API_KEY=NEW_API_KEY/g' app_config.conf

✗ **Incorrect** 0/1 Points

13. Which command sorts the lines in a file and saves the sorted output to a new file?

☐ sort oldFile.txt

☐ sort -o newFile.txt oldFile.txt

☒ sort -x oldFile.txt

☐ sort -o newFile.txt oldFile.txt

✓ **Correct** 1/1 Points

14. In which file do you get to know details of which OS flavour you are using?

☐ /usr/bin/sh

☒ /etc/os-release

☐ /boot

☐ /tmp/system.txt

✓ **Correct** 1/1 Points

15. Which grep option is used to perform a case-insensitive search?

☐ -c

☐ -v

☒ -i

☐ -l

✓ **Correct** 1/1 Points

16. Which command would you use to move a file from one directory to another and rename it in the process?

☐ cp file1.txt /newdir/file2.txt

☒ mv file1.txt /newdir/file2.txt

☐ mv file1.txt file2.txt

☐ cp file1.txt file2.txt

✓ **Correct** 1/1 Points

17. You are present in your home directory, and you want to remove a file named abc.txt forcefully. Which one in the below command you use to fulfill this task.

- ☐ rm abc.txt
- ☐ rmdir abc.txt
- ☒ rm -rf abc.txt
- ☐ rmkir -rf abc.txt

✓ **Correct** 1/1 Points

18. You have a text file named "employees.txt" that contains employee records with the following format: "Name, Age, Department." You want to extract records of employees older than 30. Which awk command should you use?

- ☒ awk -F, '\$2 > 30 {print}' employees.txt
- ☐ awk -F, '\$2 < 30 {print}' employees.txt
- ☐ awk -F, '\$1 > 30 {print}' employees.txt
- ☐ awk -F, '\$1 < 30 {print}' employees.txt

✓ **Correct** 1/1 Points

19. Consider the following shell script:

```
#!/bin/bash

# Prompt the user for input
echo "Enter a number: "
read num

if [ "$num" -gt 0 ]; then
    echo "The number is positive."
elif [ "$num" -lt 0 ]; then
    echo "The number is negative."
else
    echo "The number is zero."
```


fi

ii) What is the primary purpose of the above shell script?

- ☐ It calculates the square of the entered number.
- ☐ It checks if the number is even or odd.
- ☒ It checks if the number is positive, negative, or zero.
- ☐ It calculates the factorial of the entered number.

✓ **Correct** 1/1 Points

20. What is the primary purpose of the grep command in Unix?

- ☐ Sorting text files
- ☐ Counting lines in a file
- ☒ Searching for patterns in text
- ☐ Replacing text in a file

✗ **Incorrect** 0/1 Points

21. If you want to copy a file named "file.txt" from the current directory to another directory called "backup," which command would you use?

- ☐ cp file.txt backup
- ☐ cp backup file.txt
- ☐ mv file.txt backup
- ☒ cp file.txt /backup

✓ **Correct** 1/1 Points

22. You have a file named abc.txt and you want rename the file to xyz.txt and move the file to parent directory(one directory backward). Which command do you use.

- ☐ cp abc.txt ../xyz.txt
- ☐ mv abc.txt /xyz.txt
- ☐ cp abc.txt /xyz.txt
- ☒ mv abc.txt ../xyz.txt

✓ **Correct** 1/1 Points

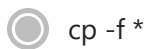
23. Which of the following is an advantage of using symbolic links in Unix?

- ☐ Symbolic links can be used to copy files between directories.
- ☐ Symbolic links consume more disk space than hard links.
- ☒ Symbolic links allow for centralized management of files.
- ☐ Symbolic links can only point to files, not directories.

✗ **Incorrect** 0/1 Points

24. If you want to copy all files and directories from one directory to another, which command would you use with the cp command?

- ☐ cp -r *
- ☐ cp -a *
- ☐ cp -d *



✗ **Incorrect** 0/1 Points

25. What is a primary advantage of using Unix-based operating systems?

- ☐ A user-friendly graphical interface.
- ☒ Broad compatibility with all software applications.
- ☐ A robust and stable foundation for server and workstation environments.
- ☐ Exclusive support for gaming and multimedia applications.

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