Unix assessment BC-102

Points: 18/22   Time: 05:11

✕ **Incorrect**   0/1 Points

1. **Scenario**: You want to write a shell script that prints the first five even numbers starting from 2. Which loop construct should you use in your script?

   ⦿ for i in {2..10..2} do echo $i done

   ◯ while [$i -le 10] do echo $i i=$((i+2)) done

   ◯ for ((i=2; i<=10; i+=2)) do echo $i done

   ◯ do while [$i -le 10] echo $i i=$((i+2)) done

✕ **Incorrect**   0/1 Points

2. You want to execute a specific block of code in a shell script if a variable count is greater than or equal to 10. Which conditional statement should you use?

   ◯ if [count >= 10]

   ⦿ if [count -ge 10]

   ◯ if [count -eq 10]

○ if [count < 10]

✓ **Correct**   1/1 Points

3. **Scenario**: You are currently in a directory called "projects" and want to list all files and directories within it, including hidden files. What command should you use?

⦿ ls -al

○ ls -R

○ ls -l

○ list projects

✓ **Correct**   1/1 Points

4. **Scenario**: You have a directory named "backup" in your home directory, and you want to remove it and all its contents. Which command should you use?

⦿ rm -r backup

○ delete backup

○ mdir backup

○ remove -d backup

✓ **Correct**   1/1 Points

5. **Scenario:** You have a text file named "report.txt," and you need to add the text "Hello, Linux!" to the end of the file without overwriting its contents. What command should you use?

○ echo "Hello, Linux!" > report.txt

○ cat "Hello, Linux!" >> report.txt

○ append "Hello, Linux!" report.txt

◉ echo "Hello, Linux!" >> report.txt

✓ **Correct**   1/1 Points

6. You have a directory called "docs" containing multiple text files. You need to create a backup of this directory and its contents while preserving permissions and timestamps. What set of commands should you use?

○ cp -r docs docs_backup mv docs_backup /backup_location

◉ cp -a docs docs_backup mv docs_backup /backup_location

○ cp -r docs /backup_location mv /backup_location/docs docs_backup

○ mv docs docs_backup cp -r docs_backup /backup_location

✓ **Correct**   1/1 Points

7. **Scenario:** You want to create a new text file named "notes.txt" in the "documents" directory. What command should you use?

○ create notes.txt ~/documents

○ touch notes.txt ~/documents

◉ touch ~/documents/notes.txt

○ newfile notes.txt ~/documents

✗ **Incorrect**   0/1 Points

8. You have a file named "confidential.txt" that contains sensitive information. You want to do the following:

   Give read and write permissions to the file owner (user).
   Give read-only permissions to the group.
   Deny all permissions to others.
   Which sequence of commands should you use to achieve this?

   ☑ chmod u+rw confidential.txt chmod g+r confidential.txt chmod o-rwx confidential.txt

   ☑ chmod u=rw confidential.txt chmod g=r confidential.txt chmod o= confidential.txt

   ☐ chmod 640 confidential.txt chown :groupname confidential.txt

   ☐ chmod u=rw,g=r,o= confidential.txt chown :groupname confidential.txt

   ✓ **Correct**   1/1 Points

9. You have a shell script that takes command-line arguments. What is the variable that represents the first argument passed to the script?

   ○ $0

   ◉ $1

   ○ $ARGV[0]

   ○ $args[1]

   ✓ **Correct**   1/1 Points

10. **Scenario:** You are a system administrator tasked with creating a new user named "johndoe" and a group named "developers" on a Linux server. What commands should you use to accomplish this?

    ○ useradd johndoe and groupadd developers

    ◉ adduser johndoe and groupadd developers

○ createuser johndoe and addgroup developers

○ newuser johndoe and creategroup developers

✓ **Correct**   1/1 Points

11. **Scenario**: You have a file named "output.txt," and you want to append the output of a command named "mycommand" to this file, preserving its existing contents. Which file redirection operator should you use?

○ > output.txt

◉ >> output.txt

○ < output.txt

○ &> output.txt

✓ **Correct**   1/1 Points

12. You have a file named "important.doc" that contains sensitive data. You need to set its permissions as follows:

Give full permissions to the owner (user).
Which chmod command should you use to achieve this?

◉ chmod 777 important.doc

○ chmod 767 important.doc

○ chmod 555 important.doc

○ chmod 757 important.doc

✓ **Correct**   1/1 Points

13. **Scenario**: You want to view a list of running processes in your Linux system, including detailed information such as process IDs, CPU usage, and memory usage. Which command should you use?

☐ ps -a

☑ top

☐ kill -l

☑ ps aux

✓ **Correct**   1/1 Points

14. You need to display the content of a file named "notes.txt" along with its line numbers. Which command should you use?

◉ cat -n notes.txt

◯ cp -n notes.txt

◯ head -n notes.txt

◯ less -N notes.txt

✓ **Correct**   1/1 Points

15. **Scenario**: You want to set an environment variable named MY_VARIABLE with the value "hello_world." Which command should you use to set this environment variable in the current shell session?

◉ export MY_VARIABLE="hello_world"

◯ setenv MY_VARIABLE="hello_world"

○ env MY_VARIABLE="hello_world"

○ define MY_VARIABLE="hello_world"

✓ **Correct**   1/1 Points

16. **Scenario**: You are in a directory with several files and directories, and you want to delete all files with the ".tmp" extension. What command should you use?

⦿ rm *.tmp

○ delete -e .tmp

○ delete -r *.tmp

○ remove -f *.tmp

✕ **Incorrect**   0/1 Points

17. You are a system administrator who needs to move a directory named "backup" from the user's home directory to a shared directory "/shared/backups." The directory "backup" contains several files and subdirectories. Which set of commands should you use?

○ mv /home/user/backup /shared/backups

⦿ mv -r /home/user/backup /shared/backups

○ cp -a /home/user/backup /shared/backups

○ cp /home/user/backup /shared/backups

✓ **Correct**   1/1 Points

18. **Scenario:** You are in your home directory, and you want to navigate to a directory called "documents" located in your home directory. What command should you use?

   ○ cd home/documents

   ● cd ~/documents

   ○ cd /home/documents

   ○ navigate ~/documents

   ✓ **Correct**   1/1 Points

19. You want to compare two text files, "file1.txt" and "file2.txt," to find the differences between them. Which command should you use?

   ○ cmp file1.txt file2.txt

   ○ comm file1.txt file2.txt

   ○ cat file1.txt file2.txt

   ● diff file1.txt file2.txt

   ✓ **Correct**   1/1 Points

20. You have a function in your shell script named "calculate_sum." How do you call this function?

   ○ call calculate_sum

   ○ run calculate_sum

   ● calculate_sum

○ ./calculate_sum

✓ **Correct**   **1/1 Points**

21. **Scenario:** You want to create a simple shell script named "greet.sh" that takes a user's name as an argument and prints a personalized greeting message. Which script correctly accomplishes this task?

⦿ #!/bin/bash name=$1 echo "Hello, $name!"

○ #!/bin/bash name=$0 echo "Hello, $name!"

○ #!/bin/bash name=$* echo "Hello, $name!"

○ #!/bin/bash name=$$ echo "Hello, $name!"

✓ **Correct**   **1/1 Points**

22. **Scenario:** You are using a Debian-based Linux distribution, and you need to install a new software package named "example-app." Which package manager command should you use to install it?

○ yum install example-app

⦿ apt-get install example-app

○ dnf install example-app

○ pkg install example-app

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