1. **What command is used to display basic file attributes in Unix?**
   * A) **ls**
   * B) **cat**
   * C) **echo**
   * D) **pwd**
   * **Answer: A) ls**
2. **Which command shows the permissions of a file in Unix?**
   * A) **chmod**
   * B) **ls -l**
   * C) **chown**
   * D) **touch**
   * **Answer: B) ls -l**
3. **In Unix file permissions, what does 'r' represent?**
   * A) Read permission
   * B) Write permission
   * C) Execute permission
   * D) Remove permission
   * **Answer: A) Read permission**
4. **Which of the following commands is used to change file ownership in Unix?**
   * A) **chgrp**
   * B) **chmod**
   * C) **chown**
   * D) **chfile**
   * **Answer: C) chown**
5. **What does the 'w' permission signify for a file in Unix?**
   * A) Write permission
   * B) Read permission
   * C) Execute permission
   * D) Watch permission
   * **Answer: A) Write permission**
6. **In Unix, how many characters are used to represent file permissions for a file?**
   * A) 3
   * B) 6
   * C) 9
   * D) 12
   * **Answer: C) 9**
7. **What command is used to change file permissions in Unix?**
   * A) **change**
   * B) **chmod**
   * C) **chperm**
   * D) **modify**
   * **Answer: B) chmod**
8. **Which of the following is NOT a basic file attribute in Unix?**
   * A) Owner
   * B) Size
   * C) Extension
   * D) Permissions
   * **Answer: C) Extension**
9. **What is the octal representation of read, write, and execute permissions in Unix?**
   * A) 001
   * B) 110
   * C) 111
   * D) 100
   * **Answer: C) 111**
10. **In Unix, what command is used to change the group ownership of a file?**
    * A) **chown**
    * B) **chgrp**
    * C) **groupmod**
    * D) **chmod**
    * **Answer: B) chgrp**
11. **Which permission is represented by 'x' in Unix file permissions?**
    * A) Execute permission
    * B) Read permission
    * C) Write permission
    * D) Hidden permission
    * **Answer: A) Execute permission**
12. **What is the command to set the permissions of a file to read-only for the owner in Unix?**
    * A) **chmod u-r file**
    * B) **chmod u+r file**
    * C) **chmod u-w file**
    * D) **chmod u+x file**
    * **Answer: A) chmod u-r file**
13. **What does the 's' in the permissions field indicate for a file in Unix?**
    * A) SetUID
    * B) SetGID
    * C) Sticky bit
    * D) Symbolic link
    * **Answer: A) SetUID**
14. **Which command displays the current working directory in Unix?**
    * A) **pwd**
    * B) **ls**
    * C) **cd**
    * D) **dir**
    * **Answer: A) pwd**
15. **What is the maximum number of hard links a file can have in Unix?**
    * A) 256
    * B) 1024
    * C) Unlimited
    * D) 65536
    * **Answer: C) Unlimited**
16. **Which command is used to change the timestamp of a file in Unix?**
    * A) **touch**
    * B) **date**
    * C) **timestamp**
    * D) **modify**
    * **Answer: A) touch**
17. **What is the purpose of the sticky bit in Unix file permissions?**
    * A) It allows only the owner to read the file.
    * B) It prevents accidental deletion of a file by users other than the owner.
    * C) It allows a file to be executed.
    * D) It hides the file from view.
    * **Answer: B) It prevents accidental deletion of a file by users other than the owner.**
18. **Which command is used to change file access modes in Unix?**
    * A) **chmod**
    * B) **chperm**
    * C) **chmodx**
    * D) **accessmode**
    * **Answer: A) chmod**
19. **In Unix file permissions, what does 'd' indicate in the permissions field?**
    * A) Read permission for directories
    * B) Write permission for directories
    * C) Execute permission for directories
    * D) That it is a directory
    * **Answer: D) That it is a directory**
20. **What is the octal representation of read and execute permissions for the owner, read permission for the group, and no permissions for others in Unix?**
    * A) 744
    * B) 541
    * C) 645
    * D) 751
    * **Answer: D) 751**

These questions cover various aspects of basic file attributes and permissions in Unix.

1. **What is the primary purpose of the cron command in Unix?**
   * A) To list currently running processes
   * B) To schedule and automate tasks at specific times
   * C) To display process statistics
   * D) To terminate running processes
   * **Answer: B) To schedule and automate tasks at specific times**
2. **Which file is commonly used to define cron jobs for individual users in Unix?**
   * A) **/etc/crontab**
   * B) **/var/cron/crontabs**
   * C) **/etc/passwd**
   * D) **/etc/cron.d**
   * **Answer: B) /var/cron/crontabs**
3. **In Unix, what is the typical format of a cron schedule entry for running a job every day at midnight (00:00)?**
   * A) **0 12 \* \* \***
   * B) **0 0 \* \* \***
   * C) **0 \* \* \* \***
   * D) **12 0 \* \* \***
   * **Answer: B) 0 0 \* \* \***
4. **Which ps command option is used to display detailed information about all processes, including their parent process IDs (PPIDs)?**
   * A) **-a**
   * B) **-l**
   * C) **-e**
   * D) **-f**
   * **Answer: D) -f**
5. **What is the PID (Process ID) of the initial process in Unix, known as the "swapper" or "scheduler"?**
   * A) 0
   * B) 1
   * C) 100
   * D) -1
   * **Answer: A) 0**
6. **In Unix, which command is used to send a specific signal to a running process, allowing you to control its behavior?**
   * A) **kill**
   * B) **terminate**
   * C) **stop**
   * D) **execute**
   * **Answer: A) kill**
7. **What does the PPID (Parent Process ID) represent in Unix process management?**
   * A) The process's creation timestamp
   * B) The user who launched the process
   * C) The ID of the process that spawned or created the current process
   * D) The current process's unique identifier
   * **Answer: C) The ID of the process that spawned or created the current process**
8. **Which ps command option displays a tree-like structure of processes, showing their parent-child relationships?**
   * A) **-e**
   * B) **-t**
   * C) **-H**
   * D) **-P**
   * **Answer: C) -H**
9. **What happens to child processes when a parent process is terminated in Unix?**
   * A) Child processes become orphaned and continue running.
   * B) Child processes are also terminated.
   * C) Child processes inherit the parent process's PID.
   * D) Child processes become zombies.
   * **Answer: A) Child processes become orphaned and continue running.**
10. **What does the nohup command do in Unix when used with a command?**
    * A) It terminates the specified command after a certain time.
    * B) It runs the specified command in the background.
    * C) It redirects the command's output to a file.
    * D) It ensures that the command continues running even if the user logs out.
    * **Answer: D) It ensures that the command continues running even if the user logs out.**