# Linux Quiz – Topic 2

Topic: File System Permissions, Default Permissions, and File Access

## Instructions

Closed book. Do not use notes. Write exact answers and commands where required.

## Part A – Multiple Choice

1. What does the permission string -rwxr-xrwx represent?
A) A directory with full access for everyone
B) A file where owner has rwx, group has r-x, others have rwx
C) A file where owner has r--, group has r-x, others have rwx
D) A file owned by root
2. Which permission allows a user to run a file as a program?
A) read
B) write
C) execute
D) delete
3. Which number represents read permission?
A) 1
B) 2
C) 4
D) 7

## Part B – True / False

4. The execute permission is required to enter a directory.
5. A file with permission rw-r--r-- can be modified by other users.
6. Permissions are divided into owner, group, and others.

## Part C – Short Answer

7. Explain what each part of the permission string -rwxr-xrwx means.


8. What is the default permission for a new file (before umask is applied)?


9. What command is used to view file permissions?

## Part D – Practical Commands

10. Change the permissions of a file named test.sh so that the owner has full access, the group has read and execute, and others have no access.

11. Remove write permission from group and others on a file called data.txt.

## Part E – Challenge

12. A file has permissions -rw-r----- . Who can read this file and who can modify it?