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Git Quiz

Q1 - What is a version control system?

Ans - **Version control is known as source control, is the practice of tracking and managing changes to software code. Version control systems are software tools that help software teams manage changes to source code over time.**

Q2 - Why did a version control system develop? What were the necessities?

Ans- **It is develop to allow multiple developers, designers, and team members to work together on the same project. It helps them to work fast.**

Q3 - Define the different types of version control systems.

Ans- **There are two types of version control: centralized and distributed.**

Centralized version- It control systems store all the files in a central repository.

Distributed version- It control systems store files across multiple repositories.

Q4 - List a few differences between the two version control system types.

Ans- **Centralized version- It control systems store all the files in a central repository.**

Distributed version- It control systems store files across multiple repositories.

Its is faster than centralized version.

Q5 - What is Git?

Ans- **Git is a DevOps tool used for source code management.**

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Q6 - List a few features of Git.
Ans- **Features of Git**

- **Tracks history.**
- **Free and open source.**
- **Supports non-linear development.**
- **Branching is easier.**

Q7 - State any three commands of Git and why we use them.
Ans-
1.git add. Moves changes from the working directory to the staging area.
2. git branch. This command is your general-purpose branch administration tool.
3. git clean. Removes untracked files from the working directory.

Q8 - Is Git the same as Github? Why or Why not?
Ans- **Git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories.**

Q9 - What is the command to get the installed version of Git?
Ans- **git --version**

Q10 - What is the command to add all files and changes of the current folder to the staging environment of the Git repository?
Ans- **“git add” command followed by the “-A” option for “all”.**

Q11 - What is the difference between git status and git log commands?
Ans- **git status lets you inspect the working directory and the staging area.**
git log only operates on the committed history.

Q12 - What is the command to initialize Git on the current repository?
Ans-

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Q13 - What are the different states of a file in Git? Explain them along with the associated commands.

Ans-**Git has three main states that your files can reside in: modified, staged, and directory:**

Modified- Modified means that you have changed the file but have not committed it to your database yet.

Staged- Stage the files and add snapshots of them to your staging area.

Git directory (Repository) - Perform a commit that stores the snapshots permanently to your Git directory.