1)What is Git ?

ans: Git is a widely-used [source code management system](https://en.wikipedia.org/wiki/Version_control_system) for [software development](https://en.wikipedia.org/wiki/Software_development) and open source version control system

2) In what form is Git being used in your Company? Give examples of a few types of Git implementations.

ans: Git is being used as version Control system

and maintain the code in the central repository and integrate with the automation tools to automate build and deployment

3) What are the different Tools that you integrated Git with in your company ?

Ans: Jenkins,Maven,JIRA

4) What are Git hooks ?

ans:Hooks are little scripts you can place in $GIT\_DIR/hooks directory to trigger action at certain points. When git init is run, a handful of examplehooks are copied into the hooks directory of the new repository, but by default they are all disabled

5) Give us an example of a Git Hook that you implemented?

ANS: pre-commit: Check the commit message for spelling errors.

pre-receive: Enforce project coding standards.

post-commit: Email/SMS team members of a new commit.

post-receive: Push the code to production.

6) List all commands a developer uses to push to git starting from clean workspace ?

ans:

git status

git add <filename>

git commit <filename>

git push origin master

7)Difference between Git push and Git pull

ans: Transfer the local branch commits to the remote repo(Git push)

retrive and merge any commits from the tracking remote branch.(Git pull)

8) Different between Git Rebase and git pull

ans:git rebase: Rebasing is the process of moving a branch to a new base commit. The general process can be visualized as the following: From a content perspective, rebasing really is just moving a branch from one commit to another.

Git pull: and merge any commits from the tracking remote branch

9) What is the command to know what branch you are currently on ?

ans:

git branch

Example:

iss53

\* master

Testing

\*indicates the current branch

10) Command to know what other git branches exist on the git server ?

ans: git branch -a

11) How do you know which remote branch your local git branch is tracking? Give exact command.

11) what is a git remote ?

ans: A remote URL is Git's fancy way of saying "the place where your code is stored." That URL could be your repository on GitHub, or another user's fork, or even on a completely different server. You can only push to two types of URL addresses: An HTTPS URL like https://github.com/user/repo.git.

12) How can you temporarily save changes before pulling/merging or switching branches?

ans: by using git stash

13) difference between git branches and git tags ?

ans: git tag is a version of a particular branch while git branches represents a separate thread of development

14) what are different types of git tags available ? give exact commands on how to create each type of tag ?

ans:light weight tag

annotated tag

15) what command do you use to merge two branches ? give exact commands. How do you know what files need conflict resolution?

How do you proceed after resolving a conflict?

ans: git merge

16) How do you know current state of your workspace to that on git server ?

ans: git status

17) What command is used to fetch the latest updates by others?

ans: git fetch

18) What command is used to create a git repo for your personal development?

ans: git init

mkdir

19) Explain the relationship between the working directory,

the index, the repository

ans:

21) what command do you use to know list of previous commits ?

ans: git log

22) What is 3a525393f6a5c47fa08d91ef16c16927ed3cd33a? What are the benefits of this?

ans: sha

23) command to rename a file in Git?

ans: git mv (oldname) (new name)

24) What git command is used to undo changes made to your local repo? What are the variations and how do they work?

Ans: git revert

25) What is the command to use

1) to delete a local git branch?

2) to delete git branch on remote server

ANS: git branch –d