1)What is Git ?

ans:

Git is a distributed version control system which holds the history of all the files.

It helps the developers to work collaboratively.

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

ans: Our company regularly conducts exams. Instead of sending the question paper to our email ids, our company pushes the question paper to the remote repository, from where we have to pull for getting the question paper. As soon as we are done with the question paper, we will push it to the remote repository.

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

Ans: Git is basically a repository to store all the versions of our souce code. For developing on the product we have to build the source code and run tests,fix the bugs if found. This has to be done regularly when there is a change in the source code.

Jenkins is a Continous Integration tool which helps in doing the above work. We have to tell the remote rposoitory address to the git,such that it always keeps an eye on the repository,whenever it detects any changes it automatically run tests.

4) What are Git hooks ?

ans:Git hooks are little scripts which are already written and triggered when some actions are done like commit, push,

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

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

ans: mkdir umar

cd umar

git init

git clone repository url

git add .

git commit -m “My first commit”

git pull orgin master(ignore if the local and remote repos are same)

git push origin master

7)Difference between Git push and Git pull

ans:

If we are a team working on a project, If I get a call from my colleague saying that he has added some file and told me to have a look,

Then I have to use a command called pull which helps in getting all the committed files done by my colleague and as well as my team.

In the same case, If I have done some modifications and I want all my colleagues to have a look on that,

Then I use a command called push, Which pushes all the modified files to remote repo, where everybody can see the updated version.

8) Different between Git Rebase and git pull

ans:

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

ans: We don’t have a particular command for knowing the current branch we are in.

When we give the command called branch followed by git ,it displays all the branches that are there and it puts an asterisk sign before the branch we are in.

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

ans: git branch

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

11) what is a git remote ?

ans: It basically refers to the remote repository.

As git is a distribute version control system, it has a local repository and a remote repository on the cloud.

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

ans: git stash

13) difference between git branches and git tags ?

ans:

Branches are generally created from the main branch.

Suppose if we want to develop a new feature , we can cut down a branch from the main branch , and we can work on it.

Git tags are the version of a particular branch.

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

ans:Annotated tags : git tag -a tagname -m “my first tag”

lightweight tags : git tag tagname

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 diff

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

ans:fetch

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

ans:fork

19) Explain the relationship between the working directory,

the index, the repository

ans: Working dorectory is our local repository. We can play with it like anything. Untill and unless you push the local repo to the remote, no one will be able to see in your working directory.

Repository is the place where we store all our stuff.

Index is a file while holds all the sha-1 keys and permisiions for the files.

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: This is a 40-digit string which has numbers from 0-9 and alphabets from a thru f. For every commit we do it,git generates one kind this.

By referring to this string , we can know the things that have been modified.

When we use the log coommad followed by git, it displays all the commits that have been done with the commit id.

Git show comit id shows the modified data.

23) command to rename a file in Git?

ans: mv

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

Ans gir revert commit-id

25) What is the command to use

1) to delete a local git branch?

2) to delete git branch on remote server

1.git branch -d [branch-name]

2.git push origin --delete [branch-name]