1.What is Jenkins?

Jenkins is an open-source automation server which enables developers around the world to reliably build, test, and deploy their software.

Jenkins also have the CI-CD automation feature.

2.What do you mean of war file and why we use war file

A WAR file (Web Application Resource or Web application ARchive) is a file used to distribute a collection of JAR-files, JavaServer Pages, Java Servlets, Java classes, XML files, tag libraries, static web pages (HTML and related files) and other resources that together constitute a web application.

3.What is default port number of jenkins

Default port number of Jenkins is 8080

4. Can we run maven work without pom file

No, we can’t able to run, because it contains all required dependencies.

5.what is localhost

The localhost means, where project is running on local machine not in server.

6.why cidr block uses the ip 0.0.0.0/0? Explain it

In IPv4-based routing, 0.0. 0.0 serves as **a default route**. This means no particular address has been designated in the routing table as the next hop in the packet's path to its final destination. When the default route is used with a subnet mask of 0.0.0.0

7.what is difference between prebuild and postbuild

Before build all actions will be perform by prebuild actions specified by user,

After build success all actions will be perform by postbuild actions which user is specified.

8.what do you mean by jenkins plugin

Jenkins plugin will provide the extra requirements to the project and adds that extension.

9.what do you mean by jenkins file

Jenkinsfile is a text file that contains the definition of a Jenkins Pipeline and is checked into source control.

10.why pom.xml file is more important for maven project?

The pom. xml file contains information of project and configuration information for the maven to build the project such as dependencies, build directory, source directory, test source directory, plugin, goals etc. Maven reads the pom. xml file, then executes the goal.

11.scenario:- the user has successfully builded the project to deploy a war file to tomcat but when he see the tomcat server page he is not find his war file, but in jenkins build is successful as well finish also successful? Explain a reason

Direct deploy using Jenkins so we need to check the config path, or if we are using to push war file through ansible directory/path in the play book, and also check destination tomcat version which we are mentioned and using currently.

12. What do you mean by freestyle project

Freestyle project will supports all type of task/jobs

13.scenario: - Srimani's company got the project from Harika's company, where Harika's company restrictions is jenkins and tomcat should run on same server(instance) and here how srimani's company going to solve these conflicts

In same instance we have installed Jenkins and tomcat, because Jenkins and tomcat using same port numbers 8080 but in one sever/instance one port allocate to one service, to solve this conflict we will map Jenkins/tomcat port number to some alternative port number.

14.scenario: - Sushma's company has developed one application using jenkins, before sending project to Anji's company, Sushma's company has done the dryrun but the pipeline of the first job was performed successfully it will take one hour to execute, but the second job showing there is a broken build in the Jenkins project, then what steps will take to solve this error by Sushma's company?

First we need to check the console output for rectifying the error and go to that error file and make the changes correctly whether it is command/program. Then run the created job to save a time of execution we will tell Jenkins to run from the second job.

15.[ $JOB\_NAME

$NODE\_NAME

$WORKSPACE

$BUILD\_URL

$JOB\_URL ] -->> what type of variables is this?

A) Jenkins central variables

B) Jenkins environment variables

C) Pipelines environment variables

D) Jenkins local variables

Ans: - Jenkins Environment Variables.