**Maven Quiz Paper**

1)What is Maven ? What is your experience with it?

Ans: Maven project management tool, It is mainly addresses two aspects how the project is being built and what are It dependencies.

2) What are the different tools that you have integrated Maven with?

Ans: Maven is deeply integrated with Jenkins and Git.

3) What are the steps that happen before a software projects deployment?

Ans: Before software deployment

1. we need comile the source code.

2. test

3. we need to create war file or ear file.(artifactory build)

4. Then need to deploy.

4) What are the Advantages of maven over Ant ?

Ans: The main advantage of maven is convention over configuration.

But for Ant we need to give procedural approach.

5) What does it mean when you say Maven uses Convention over Configuration?

Ans: Convention over configuration means we don’t need to give the each peocedure to do, Maven

Has the ability to access files with out manual approach.

6)How do you know the version of mvn you are using?

Mvn --version

7)List two most important files in your maven installation?

Settings.XML

8)What is POM? What does it contain? Explain in detail

POM :project object model, it has all the project information and configuration details about the project.

9)What is settings.xml ? What does it contain?

In settings.xml we will have project details ,as a devops engineer we need to download from the company repository to our /.m2/ workspace directory.

10)What is a goal in Maven terminology?

In the Maven terminology goal is building the project and managing it.

11)Explain what the following commands will do?

mvn clean: It will clean the target directory.

mvn test: after compilation it will test for the criteria application.

mvn install: After we reached the criteria Maven installs the artifactories.

mvn deploy: and then will create documentary, will deploy the code

12)What are the most important phases of a Maven Build Lifecycle?

CLEAN

BUILD.

DOCUMENT SITE.

13)What are Maven Profiles ? How do you use a specific profile?

14) What are Maven Plugins? List a few important maven plugins that you used?

(Must talk about maven release plugin)

Maven plugins are used to

Create jar file, create war file, test the file ,install,deploy.

15)How do you use plugins in Maven?

For using plugins we need to give the groupID, artifact ID,versionID.

16)What are dependencies in maven? How are they declared? How is transitive dependencies managed in Maven?

Ans:There are two types dependencies basically internal and external dependency.

Transitive dependencies are managed like, if we don’t have internal access for the files contents, it can automatically uses the external support.

17)What is difference between Dependency Management and Plugin Management in maven?

In Dependency management it just need what are the dependencies of project to access.(configurations) and plugin management manages to get files.

18)how do you create properties in a maven pom ?

Ans:<properties> pom.xml(artifact ID) </properties>

19)How would you if a given pom is parent pom or a child pom ?

We can see in the .xml file it mentions parent pom.

20)How would you use modules in maven? When do you create a module for your project?

Ans: grop of modules is a file, if we want to give separate details like

developer details we use modules.

21)What is the order of inheritence between following files:

settings file

company pom

project pom

child/ module pom

company pom

project pom

child pom settings file

22)What is the difference between the aggregation and inheritence in Maven?

Aggregation is just estimates the file properties, but inheritance it will use all the properties of aren’t file.

23) In your current/previous project, how did you guys manage application version strings ?

Talk about what mV versions:set -Dnewversion=X.X.X.X and maven release plugin