## Maven Quiz Paper

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

Ans: Maven is Project Management build tool which helps in converting source code to the jar,war files.

Maven is completely declarative. It follows the convention over integration which means it gives much importance to the conventions. While using Maven, it takes source code from a particular folder and it creates a build and puts in a particular folder. No need to mention the folders and all. Maven, itself do everything.

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

Ans: While I was working with Jenkins, I used git for getting the source code and maven for building purpose.

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

Ans:

Writing source code  
Pushin it to the remote repo

Building the code

Tesing

Deploying to the different plotforms

Again testing/ coding if bugs exists

Production

4)What are the Advantages of maven over Ant ?

Ans: Maven follows declarative approach where as Ant follows procedural.

For Ant tool we have to tell everything, where to get the code,where to put the build,how to create a build and when to create a build. Where as for Maven, no need to tell anything.

Maven follows conventions over configuration.

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

Ans:Maven tool uses Convention over Configuration.

In the sense, it gives much importance to the conventions.

Based on the artifact if given, It creates root folder with the same name.

In that root folder it has two folders called test and src(Source).

It saves the source code in the src folder where as it puts the created build in the test folder.

The root folder has the pom.xml file as well.

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

Ans: mvn -version

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

Ans: pom.xml

Settings.xml

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

Ans: POM is an acronym for Project Object model. It is basically a text file with xml(Extensible Markup Language) format.

This text file has all the contents related to the build.

GroupID  
ArtifactID  
Version  
Package

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

Ans: Seetiings.xml file is usually located in the config folder of maven. It stores the private data like username and password.

10)What is a goal in Maven terminology?

Ans: Goal in Maven represents to a particular task that is supposed to be completed for creating a build successfully.

11)Explain what the following commands will do?

mvn clean

mvn test

mvn install

mvn deploy

Ans: mvn clean :it deletes all the files in the target directory

mvn test :Used for running the tests

mvn install: used for installing the packages

mvn deploy: used for deploying the build

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

Ans: Validate

Compile

Test

Package

Documentation

Distribution

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)

Ans:

Maven cannot complete the build on its own. It requires some external plugins for completing the build.

Plugins are required for doing certain task while doing builds.

Maven compile plugin

Maven jar plugin

15)How do you use plugins in Maven?

For compiling the source code we use a plugin called maven compile plugin.

For creating a jar file, we use a plugin called maven jar plugin

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

Ans:

Usually our project requires some external libraries for completing the build, then we can say that our project require dependencies.

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

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

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

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

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

settings file

company pom

project pom

child/ module pom

Ans:

Settings file

Copany pom

Project pom

Child/module pom

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

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