Application Lifecycle and Annotations

1 – Application Lifecycle – Ant, Maven and Jenkins

1. Which of below is not a dependency management tool?

a) Ant

b) Maven

c) Gradle

d) Jenkins

Answer: d

Explanation: Jenkins is continuous integration system. Ant, Maven, Gradle is used for build process.

2. Which of the following is not a maven goal?

a) clean

b) package

c) install

d) debug

Answer: d

Explanation: clean, package, install are maven goals. Debug is used finding and resolving of defects.

3. Which file is used to define dependency in maven?

a) build.xml

b) pom.xml

c) dependency.xml

d) version.xml

Answer: b

Explanation: pom.xml is used to define dependency which is used to package the jar. POM stands for project object model.

4. Which file is used to specify the packaging cycle?

a) build.xml

b) pom.xml

c) dependency.xml

d) version.xml

Answer: a

Explanation: Project structure is specified in build.xml.

5. Which environment variable is used to specify the path to maven?

a) JAVA\_HOME

b) PATH

c) MAVEN\_HOME

d) CLASSPATH

Answer: c

Explanation: MAVEN\_HOME should be set to the bin folder of maven installation.

6. Which of the below is a source code management tool?

a) Jenkins

b) Maven

c) Git

d) Hudson

Answer: c

Explanation: Source code management tools help is version control, compare different versions of code, crash management, etc. Git, SVN are popular source code management tools.

7. Can we run Junits as a part of Jenkins job?

a) True

b) False

Answer: a

Explanation: As a part of jenkins job, we can run junits, fitnesse, test coverage reports, call shell or bat scripts, etc.

8. Which command can be used to check maven version?

a) mvn -ver

b) maven -ver

c) maven -version

d) mvn -version

Answer: d

Explanation: mvn -version can be used to check the version of installed maven from command prompt.

9. Which of the following is not true for Ant?

a) It is a tool box

b) It provides lifecycle management

c) It is procedural

d) It doesn’t have formal conventions

Answer: b

Explanation: Ant doesn’t provide lifecycle management. Maven provides lifecycle.

10. Which maven plugin creates the project structure?

a) dependency

b) properties

c) archetype

d) execution

Answer: c

Explanation: Archetype is the maven plugin which creates the project structure.

2 – Java Annotations

1. Which version of Java introduced annotation?

a) Java 5

b) Java 6

c) Java 7

d) Java 8

Answer: a

Explanation: Annotation were introduced with Java 5 version.

2. Annotation type definition looks similar to which of the following?

a) Method

b) Class

c) Interface

d) Field

Answer: c

Explanation: Annotation type definition is similar to an interface definition in which the keyword interface is preceded by the sign @.

3. Which of the following is not pre defined annotation in Java?

a) @Deprecated

b) @Overriden

c) @SafeVarags

d) @FunctionInterface

Answer: b

Explanation: @Overriden is not a pre defined annotation in Java. @Depricated, @Override, @SuppressWarnings, @SafeVarags and @FunctionInterface are the pre defined annotations.

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4. Annotations which are applied to other annotations are called meta annotations.

a) True

b) False

Answer: a

Explanation: Annotations which are applied to other annotations are called meta annotations.

5. Which one of the following annotations is not used in Hibernate?

a) @Entity

b) @Column

c) @Basic

d) @Query

Answer: d

Explanation: @Query is not an annotation used in Hibernate.

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6. Which one of the following is not ID generating strategy using @GeneratedValue annotation?

a) Auto

b) Manual

c) Identity

d) Sequence

Answer: b

Explanation: Auto, Table, Identity and Sequence are the ID generating strategies using @GeneratedValue annotation.

7. Which one of the following is not an annotation used by Junit with Junit4?

a) @Test

b) @BeforeClass

c) @AfterClass

d) @Ignored

Answer: d

Explanation: @Test, @Before, @BeforeClass, @After, @AfterClass and @Ignores are the annotations used by Junit with Junit4.

8. Using which annotation non visible or private method can be tested?

a) @VisibleForTesting

b) @NonVisibleForTesting

c) @Visible

d) @NonVisible

Answer: a

Explanation: Using @VisibleForTesting annotation private or non visible method can be tested.

9. Which of the following annotation is used to avoid execution of Junits?

a) @NoTest

b) @explicit

c) @avoid

d) @ignore

Answer: d

Explanation: @ignore annotation is used to avoid execution of Junits.

10. Which is the Parent class of annotation class?

a) Class

b) Object

c) Main

d) Super

Answer: b

Explanation: Object is the parent class of annotation class.