Work Branch is also known as\_. Codeline

Which is not a CI practice ? deploy to prod

Git is a \_ version control system. distributed

Activities that are part of continuous integration. All options(version control,test,code build,inspection)

Which is NOT a benefit of CI ? bugs & defects no longer occur

Release branches are created for resolving merge conflicts. False

Which is NOT true about continuous integration ? moving code in large amounts

**Rapid feedback** is a **key factor of CI**.

If the build runs for a longer duration, it may delay the reporting and fixing of errors. So ***stage the builds*** (split builds logically).

***Complexity determined by Cyclomatic Complexity Number (CCN)***.

Afferent Coupling :

* ***Who depends on you***.
* Measure of how many other packages use a specific package.
* Incoming dependencies.

Efferent Coupling :

* ***Who do you depend on***.
* Measure of how many different packages are used by a specific package.
* Outgoing dependencies.

\_\_ is a .Net build tool. NAnt

Capablility of your build system to handle an increase in the amount of code that it integrates and analyzes is known as .

Pipeline break and build break is one and the same. False

Time taken to fix a broken build is measured using \_\_. Build repair rate

\_ is a measure of incoming dependencies. Afferent coupling

Build can be triggered by a version control tool. True

Private builds are executed after moving the changes to version control. False

**Version Control** - GitHub, Subversion

**Java Build** - Ant, Maven

**.Net Build** - NAnt, MSBuild

**Java build scheduler** - Jenkins, Cruisecontrol

**Static code analysis** : SonarQube, Checkstyle, PMD

**Code Coverage** : Jcov, Clover, Serenity

**Unit Testing** : NUnit, JUnit

**Functional Testing** : Cucumber, Selenium

Final assessment:

Trunk is also known as \_\_\_\_. Mainline

is a continuous integration server. Teamcity—not sure

Build can be triggered by a version control tool. True

Git is a \_ version control system. Distributed

Select a CI tool based on it's \_\_\_.both (extendability & resistability)

Which of these is not a valid build trigger ? manual trigger—not sure

Which is the most important operational parameter in CI ? robustness—not sure

CCMetrics is used to identify \_. Code complexity

Which is NOT a benefit of CI ? Bugs & defects no longer occur

Which is not a CI practice ? deploy to prod

Complexity of a code is determined based on \_\_\_. Cyclomatic complexity number

Private builds are executed after moving the changes to version control. False

Release branches are created for resolving merge conflicts. False

Commiting a code change, when the inspection fails , is perfectly fine as the code logic is working fine anyway. False

\_\_ is a .Net build tool. Nant

Practice of developers integrating changes directly in the feature or work branches and commiting the changes at the end to the mainline is known as **\_**. Promiscuous integration/continuous integration---not sure

Which of these is not mandated for a CI pipeline ? infrastructure as code-not sure

Code changes can be hidden,enabled or disabled using \_\_\_.

Which is NOT true about continuous integration ? moving code in large amounts

What are the reasons for a build to fail ? build break

Functional testing can be automated using Jenkins. True

Which of the following is an artifact repository ? nexus—not sure

Git, Mercurial and Subversion are centralized version control tools. False

In a normal scenario, software from is deployed to production. Work branch

Component test is executed as part of \_.Integration build

Work Branch is also known as\_. Codeline

How are component dependencies injected in a workflow ? run unit test & build package—not sure

Staged builds include \_. Both(commit & secondary builds)

It is a proven fact that reducing the CCN of code is known to reduce the number of errors or bugs in the code. True

Private builds can be triggered automatically. False

\_ is a measure of incoming dependencies. Afferent coupling

Capablility of your build system to handle an increase in the amount of code that it integrates and analyzes is known as . build performance—not sure

CI pipeline consists of .stages

Which of the tools is not mandated for integration in a CI pipeline ?

Feature branching is used to \_.

Which of the tools is not used for establishing a pipeline workflow ? maven

Teamcity is a . build scheduler

CI servers use the \_ expression to poll for changes. Cron

\_ is a code coverage tool. Cobertura

Arrange in order- A. Running Unit Test B.Running Static Code Check C.Check for Code Coverage D. Build Package BACD

Control flow graph is used to calculate **\_**. Cyclo complexity

Which is the first code analysis to be executed ? unit test