

Q1) which of the following is quality assurance and which is quality control.

1. Preparation of Project quality plan (quality assurance)
2. Development plan review (quality control)
3. Contract proposal review (quality control)
4. Software requirements walkthrough (quality control)
5. Detailed design inspection (quality control)
6. Test plan sign-off (quality assurance)
7. Use of programmer's quality manual instructions (quality assurance)
8. Software unit testing (quality control)
9. Software integration testing (quality control)
10. Software use case preparation guidelines (quality assurance)

Q2) Suggest a software quality metric that will perform the following:

1. Measure the speed of a student course registration module (**Operation time: average time to register a course**)
2. Measure how easy it is to new students to learn data entry module (**Learning time: average time spend to learn data entry**)
3. Measure how many students can be registered in one hour. (**Performance: max number of students/hour**)
4. Measure the quality of a programmer coding (**Code Error Density: number of errors in his code/ number of lines he has written**)
5. Measure the quality of requirements document. (**Documentation Reuse: Number of reused pages of documentation/ Number of pages of the documentation.**)
6. Measure the quality of a testing engineering work. (**Error removal effectiveness: Number of errors detected when performing the test/Number of errors detected after one year of maintenance service**).