

TQ 5 : Testing and Source Control - Results



Attempt 2 of 5

Written Nov 4, 2023 11:56 AM - Nov 4, 2023 12:00 PM

Attempt Score 9 / 9

Overall Grade (Highest Attempt) 9 / 9

Question 1

1 / 1 point

Match the following to the proper definition:

__2__ Validation

__1__ Verification

are the activities that show a given

1. work product conforms to its specifications/design

are the activities to show that the product serves its purpose,

2. satisfying the customer's requirements

Question 2

1 / 1 point

Check which SDLC phase in which to it is best (cheapest/fastest) to uncover and fix a defect:

- ☒ Requirements
- ☐ Design
- ☐ Implementation
- ☐ Test
- ☐ Release
- ☐ Support/Maintenance

Question 3**1 / 1 point**

Check which SDLC phase in which to it is worst (most expensive/time consuming) to uncover and fix a defect:

- ☐ Requirements
- ☐ Design
- ☐ Implementation
- ☐ Test
- ☐ Release
- ☒ Support/Maintenance

Question 4**1 / 1 point**

Match the following Test Phase verification activities with their appropriate definitions:

- | | |
|--|---|
| __10__ Regression Testing | Slightly higher-level than Unit |
| __2__ Integration Testing | 1. Testing; ensures that individual units can work together. |
| __4__ Conformance Testing | Slightly higher-level than |
| __7__ Stress Testing | Functional Testing; ensure that |
| __9__ User-Interface / Usability Testing | 2. integrated functionality works within the context of the system. |
| __1__ Functional Testing | |

- __3__ System Testing
- __8__ Load Testing
- __6__ Performance Testing
- __11__ Installation Testing
- __5__ Configuration Testing

- Slightly higher-level than Integration Testing; ensures that
3. all features, after integration, work together as expected and the system works as a whole.
 4. Tests the product against a set of standards or policies.
Ensuring the product will work
 5. correctly given different underlying configurations.
Verifying the software behaves
 6. according to specifications like transactions per second or number of simultaneous users.
Ensures the program behaves
 7. correctly and degrades gracefully when resources are low or removed.
Ensures the program behaves
 8. correctly and degrades gracefully when high system load occurs (e.g., high CPU, network traffic, etc.)
 9. Focuses on the UI and how the user interacts with it.
A type of testing that ensures the
 10. software still behaves correctly after changes.
 11. Ensures the program is correctly installed into the target system.

Question 5

1 / 1 point

Source control is an optional part of software projects

- ☐ True
- ☒ False

Question 6

1 / 1 point

Source Control

- ☒ Allows multiple people to edit the same file
- ☐ Prevents multiple people from editing the same file
- ☐ Allows edits on a first come first serve basis
- ☐ Promotes "last one in, wins" philosophy

Question 7

1 / 1 point

Versions of the same solution

- ☒ Share code
- ☒ Share features
- ☒ Share bugs
- ☒ Share requirements

Question 8

1 / 1 point

Semantic Versioning assigns a numbering system to denote what type of differences exist between versions

- ☐ Major changes in feature/functionality
- ☐ Minor changes in feature/functionality
- ☐ Patches to fix a set of bugs/defects from previous versions
- ☒ All of the above

Question 9**1 / 1 point**

Branching can be used to create a copy of the code for specific purposes such as

- ☐ Testing
- ☐ Feature Development
- ☐ Staging
- ☐ Production

Done