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1. Which of the following is the best description of software engineering?

1 / 1 point

- ☒ The application of scientific principles to the design and creation of software.
- ☐ The set of all activities related to software development.
- ☐ The application of scientific principles to the organization of a software system.
- ☐ Any activity related to software development.

✓ **Correct**

Correct. Software engineering is the application of scientific principles to the design and creation of software.

2. Which of the following best describes a key advantage for a business to follow the SDLC?

1 / 1 point

- ☐ It defines all the roles of the development team.
- ☒ It gives development teams a process to follow to improve efficiency and reduce risks.
- ☐ It allows for creativity because of its ad-hoc approach to software development.
- ☐ It helps technical writers develop accurate documentation.

✓ **Correct**

Correct! The SDLC gives development teams a process to follow to improve efficiency and reduce risks.

3. Which of the following best describes an activity that happens in the maintenance phase of the SDLC?

1 / 1 point

- ☒ Fixing minor user interface issues.
- ☐ The system requirements specification is written.
- ☐ Code is thoroughly tested.
- ☐ The coding process begins.

✓ **Correct**

Correct! Often minor issues are found during the maintenance phase and those issues are then addressed.

4. Which of the following best describes a beta release?

0 / 1 point

- ☐ It is the most stable release.
- ☐ It is intended for all users.
- ☒ It is the first functioning version of a system released to a select group of stakeholders.
- ☐ It meets all functional requirements.

✗ **Incorrect**

Incorrect. Please review video of Building Quality Software.

5. Which statement best describes the Software Requirements Specification (SRS)?

1 / 1 point

- ☐ It can be combined with the System Requirements Specification (SysRS) to form the User Requirements Specification (URS).
- ☐ It is combined with the User Requirements Specification (URS) to form the System Requirements Specification (SysRS).
- ☒ It contains functional, external interface, and non-functional requirements.
- ☐ It primarily contains use cases.

✓ **Correct**

Correct! The SRS contains functional, external interface, and non-functional requirements.

6. Which of the following is an iterative approach to the software development lifecycle (SDLC)?

1 / 1 point

- ☐ Waterfall
- ☐ V-shape
- ☒ Agile
- ☐ Verification



Correct

Correct! Agile is an iterative approach to the SDLC.

7. Which of the following best describes functional testing?

0 / 1 point

- ☒ It is concerned with confirming that a recent change to the application is not adversely affecting existing functionality.
- ☐ Its goal is to make sure the application is usable and accessible.
- ☐ It tests application attributes like scalability and availability.
- ☐ It tests application attributes like performance and security.



Incorrect

Incorrect. Please review video of Software Testing.

8. Which best describes black-box testing?

1 / 1 point

- ☐ It is used to verify internal structure, design, and coding.
- ☒ It is used to test inputs and outputs.
- ☐ It is equivalent to regression testing.
- ☐ It is equivalent to non-functional testing.



Correct

Correct. Black-box testing is used during functional testing to test inputs and outputs without looking at the underlying code.

9. Which role is primarily responsible for designing the software's interface?

1 / 1 point

- ☐ Product owner
- ☐ Software architect
- ☒ UX designer
- ☐ Stakeholder



Correct

Correct! The UX designer is primarily responsible for designing the software's interface.

10. Which of the following is a type of documentation that describes the expected features and functionality of the software system?

1 / 1 point

- ☐ User documentation
- ☒ Requirements
- ☐ Design documentation
- ☐ Technical documentation



Correct

Correct! Requirements describe the expected features and functionality of the software system.