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Certified Secure Software Lifecycle Professional Practice Test

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### QUESTION 1

Which of the following testing methods tests the system efficiency by systematically selecting the suitable and minimum set of tests that are required to effectively cover the affected changes?

- A. Integration testing
- B. Acceptance testing
- C. Regression testing

Correct Answer:

Regression testing focuses on finding defects after a major code change has occurred. Specifically, it seeks to uncover software regressions, or old bugs that have come back. Such regressions occur whenever software functionality that was previously working correctly stops working as intended. Typically, regressions occur as an unintended consequence of program changes, when the newly developed part of the software collides with the previously existing code. Regression testing tests the system efficiency by systematically selecting the suitable and minimum set of tests that are required to effectively cover the affected changes. Answer: A is incorrect. Unit testing is a type of testing in which each independent unit of an application is tested separately. During unit testing, a developer takes the smallest unit of an application, isolates it from the rest of the application code, and tests it to determine whether it works as expected. Unit testing is performed before integrating these independent units into modules. The most common approach to unit testing requires drivers and stubs to be written. Drivers and stubs are programs. A driver simulates a calling unit, and a stub simulates a called unit. Answer: C is incorrect. Acceptance testing is performed on the application before its implementation into the production environment. It is done either by a client or an application specialist to ensure that the software meets the requirement for which it was made. Answer: B is incorrect. Integration testing is a software testing that seeks to verify the interfaces between components against a software design. Software components may be integrated in an iterative way or all together ("big bang"). Normally the former is considered a better practice since it allows interface issues to be localized more quickly and fixed. Integration testing works to expose defects in the interfaces and interaction between the integrated components (modules). Progressively larger groups of tested software components corresponding to elements of the architectural design are integrated and tested until the software works as a system.

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### QUESTION 2

The Systems Development Life Cycle (SDLC) is the process of creating or altering the systems; and the models and methodologies that people use to develop these systems. Which of the following are the different phases of system development life cycle? Each correct answer represents a complete solution. Choose all that apply.

- A. Testing
- B. Implementation
- C. Operation/maintenance
- D. Development/acquisition
- E. Disposal
- F. Initiation

Correct Answer: BCDEF



The Systems Development Life Cycle (SDLC), or Software Development Life Cycle in systems engineering, information systems, and software engineering, is the process of creating or altering the systems; and the models and methodologies that people use to develop these systems. The concept generally refers to computers or information systems. The following are the five phases in a generic System Development Life Cycle: 1.Initiation 2.Development/acquisition 3.Implementation 4.Operation/maintenance 5.Disposal

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### QUESTION 3

Which of the following processes does the decomposition and definition sequence of the Vee model include? Each correct answer represents a part of the solution. Choose all that apply.

- A. Component integration and test
- B. System security analysis
- C. Security requirements allocation
- D. High level software design

Correct Answer: BCD

Decomposition and definition sequence includes the following processes: System security analysis Security requirements allocation Software security requirements analysis High level software design Detailed software design  
Answer: A is incorrect. This process is included in the integration and verification sequence of the Vee model.

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### QUESTION 4

In which of the following levels of exception safety are operations succeeded with full guarantee and fulfill all needs in the presence of exceptional situations?

- A. Commit or rollback semantics
- B. Minimal exception safety
- C. Failure transparency
- D. Basic exception safety

Correct Answer: C

Failure transparency is the best level of exception safety. In this level, operations are succeeded with full guarantee and fulfill all needs in the presence of exceptional situations. Failure transparency does not throw the exception further up even when an exception occurs. This level is also known as no throw guarantee.

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### QUESTION 5

Fill in the blank with an appropriate phrase. models address specifications, requirements, design, verification and validation, and maintenance activities.

Correct Answer: Life cycle

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A life cycle model helps to provide an insight into the development process and emphasizes on the relationships among the different activities in this process. This model describes a structured approach to the development and adjustment process involved in producing and maintaining systems. The life cycle model addresses specifications, design, requirements, verification and validation, and maintenance activities.

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