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QUESTION 1

Choose the most desirable characteristics of interfaces. (Choose three.)

A. Easy to extend

B. Geared towards the capabilities of the provider

C. Clear descriptions of assertions and prerequisites

D. As few parameters as possible

E. Scalable to many consumers

F. Remotely callable

G. Hard to misuse

Correct Answer: BCF

QUESTION 2

Which of the following statements about (crosscutting) concepts are most appropriate? (Select four.)

A. The definition of appropriate concepts ensures the conceptual integrity of the architecture.

B. Concepts are a means to increase consistency.

C. For each quality goal there should be an explicitly documented concept.

D. Uniform exception handling is most easily achieved when architects agree with developers upon a suitable concept prior to implementation.

E. A concept might be implemented by a single building block.

F. Uniform usage of concepts reduces coupling between building blocks.

G. A concept can define constraints for the implementation of many building blocks.

Correct Answer: ABDG

QUESTION 3

HOTSPOT

Which characteristics of a building block are only visible in the whitebox view, and for which characteristics does the blackbox view suffice? (Assign all answers.)

Hot Area:

Blackbox Whitebox

Blackbox	Whitebox	
○	○	A) Public interfaces of the building block
○	○	B) Test coverage based on unit tests for sub building blocks contained in the building block
○	○	C) Test coverage based on integration tests
○	○	D) Code structure of the building block
○	○	E) Algorithms used in the building block
○	○	F) Security requirements of the building blocks
○	○	G) Implementation details for the security requirements of the building blocks

Correct Answer:

Blackbox Whitebox

Blackbox	Whitebox	
◉	○	A) Public interfaces of the building block
○	◉	B) Test coverage based on unit tests for sub building blocks contained in the building block
◉	○	C) Test coverage based on integration tests
◉	○	D) Code structure of the building block
○	◉	E) Algorithms used in the building block
◉	○	F) Security requirements of the building blocks
○	◉	G) Implementation details for the security requirements of the building blocks

QUESTION 4

HOTSPOT

You are responsible for the documentation of the software architecture of a large development project. The project consists of three teams, each with its own architect, but with you as the person having overall responsibility of the entire

project\\'s software architecture.

Which of the following measures are beneficial? (Assign all answers.)

Hot Area:

beneficial	not beneficial	
○	○	A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation.
○	○	B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures.
○	○	C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project.
○	○	D) You reject using word processing for the documentation because it is not connected with the source code.
○	○	E) The developers should document their parts of the architecture documentation using source code.

Correct Answer:

beneficial	not beneficial	
○	●	A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation.
○	●	B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures.
○	●	C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project.
○	●	D) You reject using word processing for the documentation because it is not connected with the source code.
●	○	E) The developers should document their parts of the architecture documentation using source code.

QUESTION 5

HOTSPOT

You are the software architect of a system that has run for many years and been extended repeatedly. An analysis of the source code has revealed a multitude of dependencies between the classes. Which of the following measures are possible solutions? (Assign all answers.)

Hot Area:

true	false	
○	○	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
○	○	B) Loosening of direct dependencies between classes through the introduction of interfaces
○	○	C) Loosening of direct dependencies between classes through the introduction of factories

Correct Answer:

true	false	
○	○	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
○	○	B) Loosening of direct dependencies between classes through the introduction of interfaces
○	○	C) Loosening of direct dependencies between classes through the introduction of factories

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