CPSA-FL^{Q&As}

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QUESTION 1

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 2

HOTSPOT

Conway\\'s law sometimes is referred to as "If you have four teams working on the compiler, you'll get a 4-pass compiler." Which interpretations of this law are true, which are false? (Assign all answers.)

Hot Area:

true	false	
○	○	A) You need four teams to build a compiler.
○	○	B) Structures of software architecture and associated organisation are congruent.
○	○	C) Software architecture is particularly important when creating compilers.
○	○	D) Certain types of software are not suitable for the use of software architecture.

Correct Answer:

true	false	
O	O	A) You need four teams to build a compiler.
O	O	B) Structures of software architecture and associated organisation are congruent.
O	O	C) Software architecture is particularly important when creating compilers.
O	O	D) Certain types of software are not suitable for the use of software architecture.

QUESTION 3

HOTSPOT

What is the main benefit of the layered architectural pattern? (Assign all answers.)

Hot Area:

true	false	
O	O	A) Increasing flexibility
O	O	B) Creating high-performance systems
O	O	C) Being able to use application servers

Correct Answer:

true	false	
O	O	A) Increasing flexibility
O	O	B) Creating high-performance systems
O	O	C) Being able to use application servers

QUESTION 4

HOTSPOT

Which information is presented in the building-block view? Rate the alternatives below as either true or false. (Assign all answers.)

Hot Area:

true	false	
○	○	A) Which building blocks the software is composed of
○	○	B) How the building blocks interact during run time
○	○	C) How the building blocks are hierarchically decomposed
○	○	D) How the building blocks are distributed in a distributed system
○	○	E) The dependencies between the building blocks

Correct Answer:

true	false	
⊙	○	A) Which building blocks the software is composed of
○	⊙	B) How the building blocks interact during run time
⊙	○	C) How the building blocks are hierarchically decomposed
⊙	○	D) How the building blocks are distributed in a distributed system
⊙	○	E) The dependencies between the building blocks

QUESTION 5

HOTSPOT

Which of the following aspects are more of a domain-related nature, and which more of technical nature? (Assign all answers.)

Hot Area:

more technical	more domain-related	
O	O	A) Choosing a database
O	O	B) Modelling a banking account
O	O	C) Legal constraints for the execution of a money transfer
O	O	D) Choosing a layout manager in a GUI
O	O	E) The average number of methods per class
O	O	F) Specification of a calculation formula

Correct Answer:

more technical	more domain-related	
O	**O**	A) Choosing a database
O	O	B) Modelling a banking account
O	O	C) Legal constraints for the execution of a money transfer
O	O	D) Choosing a layout manager in a GUI
O	**O**	E) The average number of methods per class
O	O	F) Specification of a calculation formula