

CPSA-FL^{Q&As}

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QUESTION 1

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	
<input type="radio"/>	<input type="radio"/>	A) You need four teams to build a compiler.
<input type="radio"/>	<input type="radio"/>	B) Structures of software architecture and associated organisation are congruent.
<input type="radio"/>	<input type="radio"/>	C) Software architecture is particularly important when creating compilers.
<input type="radio"/>	<input type="radio"/>	D) Certain types of software are not suitable for the use of software architecture.

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) You need four teams to build a compiler.
<input checked="" type="radio"/>	<input type="radio"/>	B) Structures of software architecture and associated organisation are congruent.
<input type="radio"/>	<input checked="" type="radio"/>	C) Software architecture is particularly important when creating compilers.
<input type="radio"/>	<input checked="" type="radio"/>	D) Certain types of software are not suitable for the use of software architecture.

QUESTION 2

You want to demonstrate to colleagues that certain building blocks are suitable for the implementation of a use-case scenario. Which of the following UML diagrams is best suited for this?

- A. Use-case diagram
- B. Sequence diagram
- C. Activity diagram
- D. Class diagram

Correct Answer: A

Reference: <https://www.lucidchart.com/pages/uml-use-case-diagram>

QUESTION 3

Which of the following statements apply to design patterns? (Choose two.)

- A. Design patterns are not invented but discovered.
- B. Design patterns should always be described alongside the problem they are supposed to solve.
- C. Design patterns are formally defined and can thus be proven to be correct.
- D. The number of design patterns used is proportional to the software architecture's quality.

Correct Answer: AB

QUESTION 4

HOTSPOT

Which characteristics of a black-box building block are you able to specify as an architect? (Assign all answers.)

Hot Area:

predefinable		not predefinable	
<input type="radio"/>	<input type="radio"/>	A) Compliance with functional requirements	
<input type="radio"/>	<input type="radio"/>	B) Compliance with non-functional requirements (i.e. meeting required constraints)	
<input type="radio"/>	<input type="radio"/>	C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level of refinement	
<input type="radio"/>	<input type="radio"/>	D) Purpose and/or responsibility	
<input type="radio"/>	<input type="radio"/>	E) Method signature of public interfaces	
<input type="radio"/>	<input type="radio"/>	F) Data formats of public interfaces	
<input type="radio"/>	<input type="radio"/>	G) Structure of the source code of this building block	

Correct Answer:

predefinable		not predefinable	
<input checked="" type="radio"/>	<input type="radio"/>	A) Compliance with functional requirements	
<input type="radio"/>	<input checked="" type="radio"/>	B) Compliance with non-functional requirements (i.e. meeting required constraints)	
<input type="radio"/>	<input checked="" type="radio"/>	C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level of refinement	
<input checked="" type="radio"/>	<input type="radio"/>	D) Purpose and/or responsibility	
<input type="radio"/>	<input checked="" type="radio"/>	E) Method signature of public interfaces	
<input type="radio"/>	<input checked="" type="radio"/>	F) Data formats of public interfaces	
<input type="radio"/>	<input checked="" type="radio"/>	G) Structure of the source code of this building block	

QUESTION 5

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

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