

CPSA-FL^{Q&As}

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QUESTION 1

Which two of the following requirements are examples of quality requirements? (Choose two.)

- A. Up to 40,000 requests per day
- B. User should be able to select the sort order freely.
- C. Spelling is corrected automatically.
- D. Failure rate is less than 0.1%.

Correct Answer: BC

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	
<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 3

HOTSPOT

Which of the following statements regarding the design principle 'information hiding' are true and which are false? (Assign all answers.)

Hot Area:

true	false	
<input type="radio"/>	<input type="radio"/>	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
<input type="radio"/>	<input type="radio"/>	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
<input type="radio"/>	<input type="radio"/>	C) Information hiding makes it harder to distinguish between interface and implementation.
<input type="radio"/>	<input type="radio"/>	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
<input type="radio"/>	<input type="radio"/>	E) In object-oriented development, information hiding is primarily relevant at class level.

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
<input type="radio"/>	<input checked="" type="radio"/>	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
<input checked="" type="radio"/>	<input type="radio"/>	C) Information hiding makes it harder to distinguish between interface and implementation.
<input type="radio"/>	<input checked="" type="radio"/>	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
<input type="radio"/>	<input checked="" type="radio"/>	E) In object-oriented development, information hiding is primarily relevant at class level.

QUESTION 4

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 5

What role does understandability play for architecture documentation? (Choose three.)

- A. It is desirable, but not essential.
- B. It is less important than completeness.
- C. It is an important quality characteristic.
- D. It is a quality characteristic together with correctness and efficiency.
- E. It is a quality characteristic together with simplicity and brevity.
- F. It is a quality characteristic together with scope and completeness.

Correct Answer: CDE

Reference: <https://courses.cs.vt.edu/~csonline/SE/Lessons/Qualities/index.html>

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