

# CPSA-FL<sup>Q&As</sup>

ISAQB Certified Professional for Software Architecture - Foundation Level (CPSA-FL)

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# **QUESTION 1**

# **HOTSPOT**

You are supposed to choose a software-architecture modeling tool for a software-development project. You create a suitable criteria catalogue for the choice of appropriate tools. Which of the following factors can play a role in this? (Assign all answers.)

#### Hot Area:

true	false	
0	0	A) Multi-user capability
0	0	B) Support of UML 2.x and SysML
0	0	C) Document generation
0	0	D) Support of model transformations in preparation of the code generation
0	0	E) Support of code generation
0	0	F) Compliance with standards
0	0	G) Purchase and licensing costs

# Correct Answer:

true	false	
0	0	A) Multi-user capability
0	0	B) Support of UML 2.x and SysML
0	0	C) Document generation
0	0	D) Support of model transformations in preparation of the code generation
0	0	E) Support of code generation
0	0	F) Compliance with standards
0	0	G) Purchase and licensing costs

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#### **QUESTION 2**

Which of the following principles apply to testing? (Choose two.)

- A. In general, exhaustive testing is not possible.
- B. Where many errors exist, more errors are usually hidden.
- C. Sufficient testing will show that a program is free of errors.
- D. Error-free test runs also mean: the software is usable.

Correct Answer: AC

#### **QUESTION 3**

Name the three most important fields of template-based architecture documentation. (Choose three.)

- A. To describe module structures (white boxes)
- B. To describe individual architectural modules and their external interfaces (black boxes)
- C. To use copyright templates for a consistent description of project/system meta information within documents and source codes
- D. To use a standardized document structure
- E. To reuse code and test case templates

Correct Answer: ABD

Reference: https://buildmedia.readthedocs.org/media/pdf/roboy-sw-documentation-template/latest/roboy-sw-documentation-template.pdf

# **QUESTION 4**

#### **HOTSPOT**

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

Hot Area:



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true	false	
0	0	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
0	0	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
0	0	C) Information hiding makes it harder to distinguish between interface and implementation.
0	0	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
0	0	E) In object-oriented development, information hiding is primarily relevant at class level.

#### Correct Answer:

true	false	
0	0	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
0	0	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
0	0	C) Information hiding makes it harder to distinguish between interface and implementation.
0	0	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
0	0	E) In object-oriented development, information hiding is primarily relevant at class level.

# **QUESTION 5**

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

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