

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

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

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**QUESTION 1**

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

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**QUESTION 2**

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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**QUESTION 3****HOTSPOT**

What is the purpose of defining the system context? (Assign all answers.)

Hot Area:

true	false	
<input type="radio"/>	<input type="radio"/>	A) To illustrate the relationships between internal system components
<input type="radio"/>	<input type="radio"/>	B) To illustrate the system's interfaces with external systems
<input type="radio"/>	<input type="radio"/>	C) To clarify the area of responsibility of the software architect
<input type="radio"/>	<input type="radio"/>	D) To represent the external systems
<input type="radio"/>	<input type="radio"/>	E) To distinguish between infrastructure and application
<input type="radio"/>	<input type="radio"/>	F) To distinguish between the hardware and software of a solution

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) To illustrate the relationships between internal system components
<input checked="" type="radio"/>	<input type="radio"/>	B) To illustrate the system's interfaces with external systems
<input type="radio"/>	<input checked="" type="radio"/>	C) To clarify the area of responsibility of the software architect
<input type="radio"/>	<input checked="" type="radio"/>	D) To represent the external systems
<input type="radio"/>	<input checked="" type="radio"/>	E) To distinguish between infrastructure and application
<input type="radio"/>	<input checked="" type="radio"/>	F) To distinguish between the hardware and software of a solution

#### QUESTION 4

Which views should software architects document? Select the three most popular views.

- A. Deployment view
- B. Data view
- C. Runtime view
- D. Configuration view
- E. Non-functional view

F. Link view

G. Stakeholder view

H. Building-block view

I. Interface view

Correct Answer: ABD

Reference: [http://www.michael-richardson.com/processes/rup\\_for\\_sqa/core.base\\_rup/guidances/guidelines/software\\_architecture\\_document\\_F4C93435.html](http://www.michael-richardson.com/processes/rup_for_sqa/core.base_rup/guidances/guidelines/software_architecture_document_F4C93435.html)

## QUESTION 5

### HOTSPOT

You are the software architect on a large development project and are entrusted with the task of building a tool chain for continuous architecture evaluation and analysis. Which of the following statements regarding this tool selection are correct/incorrect? (Assign all answers.)

Hot Area:

correct	incorrect	
<input type="radio"/>	<input type="radio"/>	A) Tools for static code analysis find all dependencies in the source code.
<input type="radio"/>	<input type="radio"/>	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
<input type="radio"/>	<input type="radio"/>	C) Tools for static code analysis can reliably measure cohesion.
<input type="radio"/>	<input type="radio"/>	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
<input type="radio"/>	<input type="radio"/>	E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures.

Correct Answer:

correct	incorrect	
<input type="radio"/>	<input checked="" type="radio"/>	A) Tools for static code analysis find all dependencies in the source code.
<input checked="" type="radio"/>	<input type="radio"/>	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
<input type="radio"/>	<input checked="" type="radio"/>	C) Tools for static code analysis can reliably measure cohesion.
<input type="radio"/>	<input checked="" type="radio"/>	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
<input checked="" type="radio"/>	<input type="radio"/>	E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures.