

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

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

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**QUESTION 1**

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	
<input type="radio"/>	<input type="radio"/>	A) Which building blocks the software is composed of
<input type="radio"/>	<input type="radio"/>	B) How the building blocks interact during run time
<input type="radio"/>	<input type="radio"/>	C) How the building blocks are hierarchically decomposed
<input type="radio"/>	<input type="radio"/>	D) How the building blocks are distributed in a distributed system
<input type="radio"/>	<input type="radio"/>	E) The dependencies between the building blocks

Correct Answer:

true	false	
<input checked="" type="radio"/>	<input type="radio"/>	A) Which building blocks the software is composed of
<input type="radio"/>	<input checked="" type="radio"/>	B) How the building blocks interact during run time
<input checked="" type="radio"/>	<input type="radio"/>	C) How the building blocks are hierarchically decomposed
<input checked="" type="radio"/>	<input type="radio"/>	D) How the building blocks are distributed in a distributed system
<input checked="" type="radio"/>	<input type="radio"/>	E) The dependencies between the building blocks

**QUESTION 2**

HOTSPOT

Which statements with regard to project objectives and architectural objectives are true and which are false? (Assign all answers.)

Hot Area:

- | <b>true</b>           | <b>false</b>          |   |
|-----------------------|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> | A) Architectural objectives and project objectives need to be identical.                                |
| <input type="radio"/> | <input type="radio"/> | B) Most of the time, architectural objectives are of a more long-term nature than project objectives.   |
| <input type="radio"/> | <input type="radio"/> | C) Architectural objectives and project objectives need to be negotiated between the concerned parties. |
| <input type="radio"/> | <input type="radio"/> | D) Architectural objectives are a subset of project objectives.   |

Correct Answer:

- | <b>true</b>                      | <b>false</b>                     |   |
|----------------------------------|----------------------------------|---|
| <input type="radio"/>            | <input checked="" type="radio"/> | A) Architectural objectives and project objectives need to be identical.                                |
| <input checked="" type="radio"/> | <input type="radio"/>            | B) Most of the time, architectural objectives are of a more long-term nature than project objectives.   |
| <input type="radio"/>            | <input checked="" type="radio"/> | C) Architectural objectives and project objectives need to be negotiated between the concerned parties. |
| <input type="radio"/>            | <input checked="" type="radio"/> | D) Architectural objectives are a subset of project objectives.   |

### QUESTION 3

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:

- | <b>true</b>           | <b>false</b>          |   |
|-----------------------|-----------------------|---|
| <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 4**

**HOTSPOT**

Which of the following statements about the coupling between building blocks are correct? (Assign all answers.)

Hot Area:

true	false	
<input type="radio"/>	<input type="radio"/>	A) A high degree of coupling of a building block reduces its reusability.
<input type="radio"/>	<input type="radio"/>	B) Low coupling of a building block improves the ability to meet functional requirements.
<input type="radio"/>	<input type="radio"/>	C) Low cohesion often leads to high coupling.
<input type="radio"/>	<input type="radio"/>	D) Loose coupling often leads to less effort for making changes.
<input type="radio"/>	<input type="radio"/>	E) For call dependencies, the degree of coupling is independent of the direction of the call.
<input type="radio"/>	<input type="radio"/>	F) In object-oriented programming languages, inheritance reduces coupling.

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) A high degree of coupling of a building block reduces its reusability.
<input type="radio"/>	<input checked="" type="radio"/>	B) Low coupling of a building block improves the ability to meet functional requirements.
<input checked="" type="radio"/>	<input type="radio"/>	C) Low cohesion often leads to high coupling.
<input type="radio"/>	<input checked="" type="radio"/>	D) Loose coupling often leads to less effort for making changes.
<input type="radio"/>	<input checked="" type="radio"/>	E) For call dependencies, the degree of coupling is independent of the direction of the call.
<input type="radio"/>	<input checked="" type="radio"/>	F) In object-oriented programming languages, inheritance reduces coupling.

**QUESTION 5**

**HOTSPOT**

Which statements regarding top-down and bottom-up design are true? (Assign all answers.)

Hot Area:

<b>true</b>	<b>false</b>	
<input type="radio"/>	<input type="radio"/>	A) Top-down and bottom-up design may be employed in the same project.
<input type="radio"/>	<input type="radio"/>	B) Top-down requires that details be ignored initially.
<input type="radio"/>	<input type="radio"/>	C) Architects leave the bottom-up design to developers.
<input type="radio"/>	<input type="radio"/>	D) Generally, architects should work top-down.
<input type="radio"/>	<input type="radio"/>	E) Bottom-up design means to proceed from the abstract to the concrete.
<input type="radio"/>	<input type="radio"/>	F) Different ideas about top-down and bottom-up approaches constitute a potential for conflict.

Correct Answer:

<b>true</b>	<b>false</b>	
<input type="radio"/>	<input checked="" type="radio"/>	A) Top-down and bottom-up design may be employed in the same project.
<input type="radio"/>	<input checked="" type="radio"/>	B) Top-down requires that details be ignored initially.
<input checked="" type="radio"/>	<input type="radio"/>	C) Architects leave the bottom-up design to developers.
<input checked="" type="radio"/>	<input type="radio"/>	D) Generally, architects should work top-down.
<input type="radio"/>	<input checked="" type="radio"/>	E) Bottom-up design means to proceed from the abstract to the concrete.
<input type="radio"/>	<input checked="" type="radio"/>	F) Different ideas about top-down and bottom-up approaches constitute a potential for conflict.