



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

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### QUESTION 1

Which elements should be defined in the white-box view of a software building block `foo`? Select the three most important elements. (Choose three.)

- A. The dependencies of the internal building blocks of `foo`
- B. The legal contracts with the suppliers of the internal building blocks of `foo`
- C. The algorithms of the internal building blocks of `foo`
- D. The internal building blocks of `foo`
- E. The rationale for the decomposition of the building block
- F. The sizes (in lines of code) of the internal building blocks of `foo`

Correct Answer: BCE

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### QUESTION 2

What are the four key terms in common definitions of software architecture? (Choose four.)

- A. Source code
- B. Building Blocks
- C. Functionality
- D. Relationships
- E. Components
- F. Requirements
- G. Interfaces

Correct Answer: BDEF

Reference: [http://www.michael-richardson.com/processes/rup\\_for\\_sqa/core.base\\_rup/guidances/concepts/software\\_architecture\\_4269A354.html](http://www.michael-richardson.com/processes/rup_for_sqa/core.base_rup/guidances/concepts/software_architecture_4269A354.html)

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### QUESTION 3

#### 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.                 |

#### QUESTION 4

##### 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 5**

**HOTSPOT**

In your project, three architects and seven developers are working on the documentation of the software architecture.

Which methods are appropriate in order to achieve a consistent and adequate documentation, and which are not? (Assign all answers.)

Hot Area:

appropriate	not appropriate	
<input type="radio"/>	<input type="radio"/>	A) The chief architect creates the documentation.
<input type="radio"/>	<input type="radio"/>	B) Identical templates are used for the documentation.
<input type="radio"/>	<input type="radio"/>	C) All parts of the architecture documentation are automatically extracted from the source code.

Correct Answer:

appropriate	not appropriate	
<input checked="" type="radio"/>	<input type="radio"/>	A) The chief architect creates the documentation.
<input type="radio"/>	<input checked="" type="radio"/>	B) Identical templates are used for the documentation.
<input type="radio"/>	<input checked="" type="radio"/>	C) All parts of the architecture documentation are automatically extracted from the source code.