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

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

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**QUESTION 1**

HOTSPOT

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

Hot Area:

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

Correct Answer:

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

**QUESTION 2**

HOTSPOT

You are responsible for the documentation of the software architecture of a large development project. The project consists of three teams, each with its own architect, but with you as the person having overall responsibility of the entire

project\\'s software architecture.

Which of the following measures are beneficial? (Assign all answers.)

Hot Area:

| beneficial | not beneficial | |
|---|---|---|
| ○ | ○ | A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation. |
| ○ | ○ | B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures. |
| ○ | ○ | C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project. |
| ○ | ○ | D) You reject using word processing for the documentation because it is not connected with the source code. |
| ○ | ○ | E) The developers should document their parts of the architecture documentation using source code. |

Correct Answer:

| beneficial | not beneficial | |
|---|---|---|
| ○ | ● | A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation. |
| ○ | ● | B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures. |
| ○ | ● | C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project. |
| ○ | ● | D) You reject using word processing for the documentation because it is not connected with the source code. |
| ● | ○ | E) The developers should document their parts of the architecture documentation using source code. |

**QUESTION 3**

HOTSPOT

Which of the following aspects are more of a domain-related nature, and which more of technical nature? (Assign all answers.)

Hot Area:

| more technical | more domain-related | |
|:---:|:---:|:---|
| ○ | ○ | A) Choosing a database |
| ○ | ○ | B) Modelling a banking account |
| ○ | ○ | C) Legal constraints for the execution of a money transfer |
| ○ | ○ | D) Choosing a layout manager in a GUI |
| ○ | ○ | E) The average number of methods per class |
| ○ | ○ | F) Specification of a calculation formula |

Correct Answer:

| more technical | more domain-related | |
|:---:|:---:|:---|
| ○ | ● | A) Choosing a database |
| ● | ○ | B) Modelling a banking account |
| ● | ○ | C) Legal constraints for the execution of a money transfer |
| ● | ○ | D) Choosing a layout manager in a GUI |
| ○ | ● | E) The average number of methods per class |
| ● | ○ | F) Specification of a calculation formula |

**QUESTION 4**

In a customer project the architecture shall be based on components. The requirements have not been fully determined yet. Taking this constraint into account, which three properties of the components developed by you will you pay particular attention to? (Choose three.)

A. meaningful component names

B. weak coupling

C. strong cohesion

D. open for extension

E. small component size

Correct Answer: CDE

**QUESTION 5**

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 | |
|------|-------|---|
| ○ | ○ | A) Which building blocks the software is composed of |
| ○ | ○ | B) How the building blocks interact during run time |
| ○ | ○ | C) How the building blocks are hierarchically decomposed |
| ○ | ○ | D) How the building blocks are distributed in a distributed system |
| ○ | ○ | E) The dependencies between the building blocks |

Correct Answer:

| true | false | |
|------|-------|---|
| ● | ○ | A) Which building blocks the software is composed of |
| ○ | ● | B) How the building blocks interact during run time |
| ● | ○ | C) How the building blocks are hierarchically decomposed |
| ● | ○ | D) How the building blocks are distributed in a distributed system |
| ● | ○ | E) The dependencies between the building blocks |

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