CPSA-FL^{Q&As}

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

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QUESTION 1

You want to demonstrate to colleagues that certain building blocks are suitable for the implementation of a use-case scenario. Which of the following UML diagrams is best suited for this?

A. Use-case diagram

B. Sequence diagram

C. Activity diagram

D. Class diagram

Correct Answer: A

Reference: https://www.lucidchart.com/pages/uml-use-case-diagram

QUESTION 2

HOTSPOT

You are the software architect of a system that has run for many years and been extended repeatedly. An analysis of the source code has revealed a multitude of dependencies between the classes. Which of the following measures are possible solutions? (Assign all answers.)

Hot Area:

true	false	
O	O	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
O	O	B) Loosening of direct dependencies between classes through the introduction of interfaces
O	O	C) Loosening of direct dependencies between classes through the introduction of factories

Correct Answer:

true	false	
O	O	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
O	O	B) Loosening of direct dependencies between classes through the introduction of interfaces
O	O	C) Loosening of direct dependencies between classes through the introduction of factories

QUESTION 3

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

QUESTION 4

HOTSPOT

How are written documentation and verbal communication of software architectures related? Please mark the following statements as true or false. (Assign all answers.)

Hot Area:

true	false	
O	O	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute for documentation.
O	O	B) Written documentation makes verbal reiteration unnecessary.
O	O	C) Despite written documentation, verbal communication of architectural interrelationships is important.
O	O	D) Documentation and communication should use identical terms and rationale.
O	O	E) Documentation should be created primarily for project participants who either cannot or do not want to read the system's source code.
O	O	F) Communication and documentation complement each other: verbal communication helps architects determine what must be recorded in writing.

Correct Answer:

true	false	
○	●	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute for documentation.
○	●	B) Written documentation makes verbal reiteration unnecessary.
●	○	C) Despite written documentation, verbal communication of architectural interrelationships is important.
○	●	D) Documentation and communication should use identical terms and rationale.
○	●	E) Documentation should be created primarily for project participants who either cannot or do not want to read the system's source code.
○	●	F) Communication and documentation complement each other: verbal communication helps architects determine what must be recorded in writing.

QUESTION 5

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.

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