CPSA-FL Q&As

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

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QUESTION 1

Which two of the following statements about quality characteristics are most accurate? (Choose two.)

A. Flexibility reduces testability

B. Increased flexibility improves robustness

C. Simplicity increases comprehensibility

D. Increased efficiency results in reduced performance

Correct Answer: BC

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

QUESTION 3

HOTSPOT

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

Hot Area:

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

Correct Answer:

true	false	
○	●	A) To illustrate the relationships between internal system components
●	○	B) To illustrate the system's interfaces with external systems
○	●	C) To clarify the area of responsibility of the software architect
○	●	D) To represent the external systems
○	●	E) To distinguish between infrastructure and application
○	●	F) To distinguish between the hardware and software of a solution

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	
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.

QUESTION 5

Which of the following techniques are best suited to illustrate the interaction of runtime building blocks? Select the four most suitable techniques.

A. Activity diagrams

B. Sequence diagrams

C. State diagram

D. Flowcharts

E. Class diagrams

F. Tabular description of interfaces

G. Depiction of screen flows (sequence of user interactions)

H. Numbered lists of sequential steps

Correct Answer: ABCE

Reference: https://www.smartdraw.com/uml-diagram/

QUESTION 6

Which of the following statements are correct? (Choose two.)

A. The push operation usually places a new element onto a stack.

B. A stack acts exactly like a queue.

C. A stack is organized according to the FIFO principle.

D. A stack usually only provides access to one element at a time.

Correct Answer: AD

QUESTION 7

For which quality characteristics is the software architect responsible?

Please name the two characteristics that best match the role of the software architect. (Choose two.)

A. The performance of the software

B. The technical quality of the software implementation

C. The suitability of the software design for its purpose

D. The software is free of errors

Correct Answer: AB

QUESTION 8

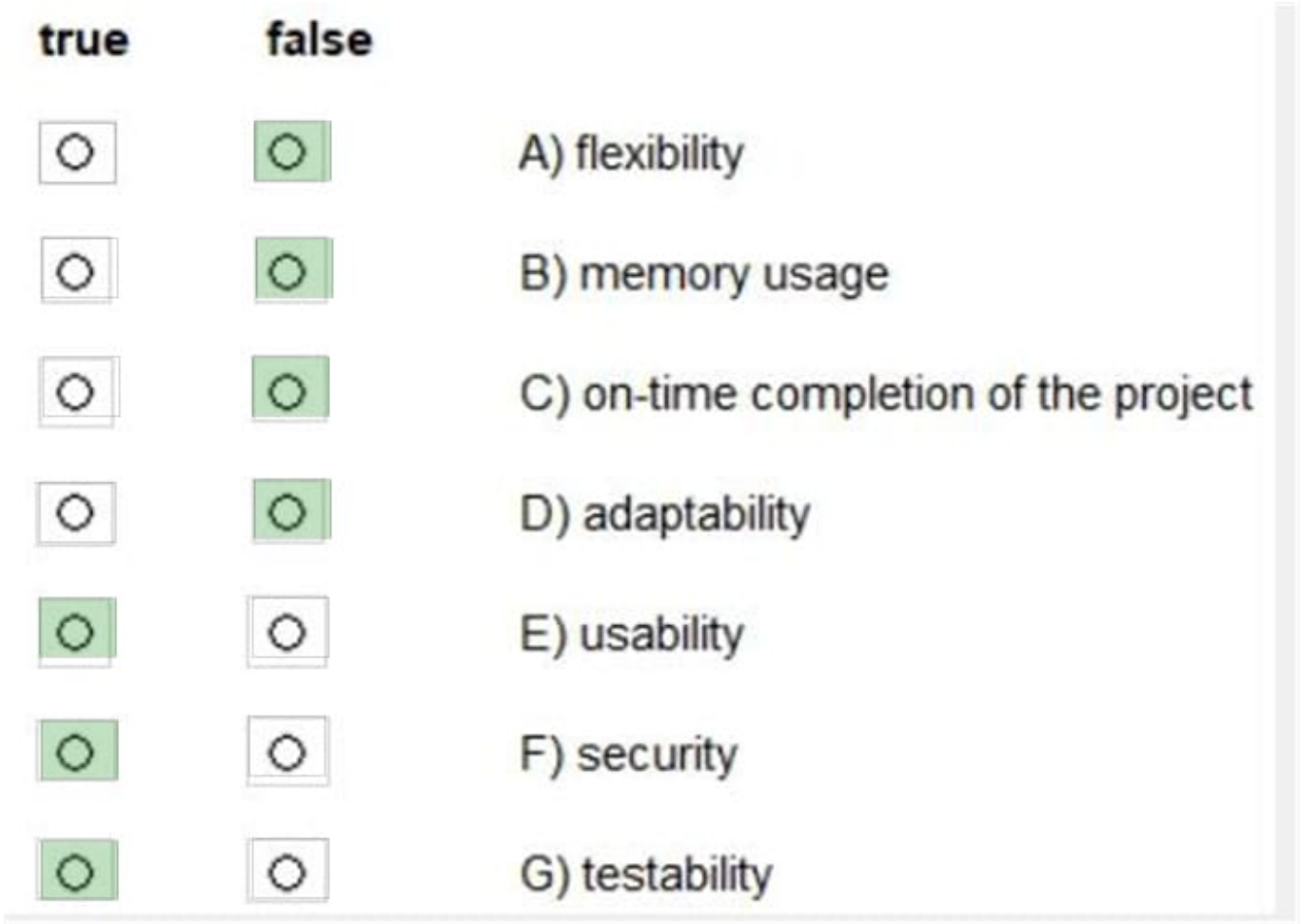
HOTSPOT

Decide if the following statements are true or false. The performance of a system (response time or throughput) often competes with its… (Assign all answers.)

Hot Area:

true	false	
○	○	A) flexibility
○	○	B) memory usage
○	○	C) on-time completion of the project
○	○	D) adaptability
○	○	E) usability
○	○	F) security
○	○	G) testability

Correct Answer:

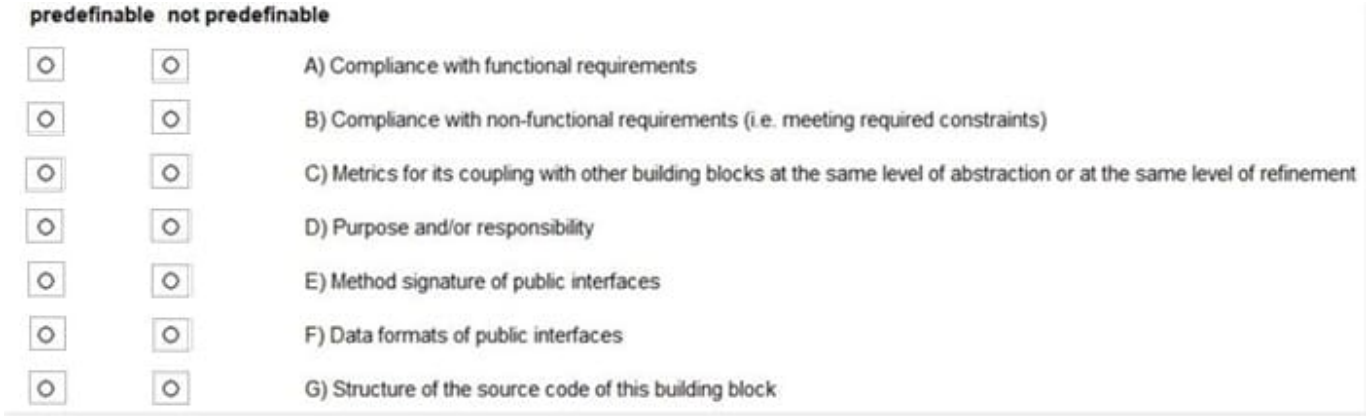


QUESTION 9

HOTSPOT

Which characteristics of a black-box building block are you able to specify as an architect? (Assign all answers.)

Hot Area:



Correct Answer:

QUESTION 10

Which four of the following items can be building blocks of a software architecture? (Choose four.)

A. an algorithm

B. a component

C. a test harness

D. a class

E. a processor

F. a method/procedure/function/operation

G. a local variable

H. a package

Correct Answer: ABDH