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QUESTION NO: 1 - (HOTSPOT)

HOTSPOT

Which of the following statements regarding the design principle ‘information hiding’ are true and which are false? (Assign all answers.)

Hot Area:

true	false	
○	○	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
○	○	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
○	○	C) Information hiding makes it harder to distinguish between interface and implementation.
○	○	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
○	○	E) In object-oriented development, information hiding is primarily relevant at class level.

ANSWER:

true	false	
○	●	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
○	●	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
●	○	C) Information hiding makes it harder to distinguish between interface and implementation.
○	●	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
○	●	E) In object-oriented development, information hiding is primarily relevant at class level.

Explanation:

QUESTION NO: 2 - (HOTSPOT)

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

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

Explanation:

QUESTION NO: 3

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.

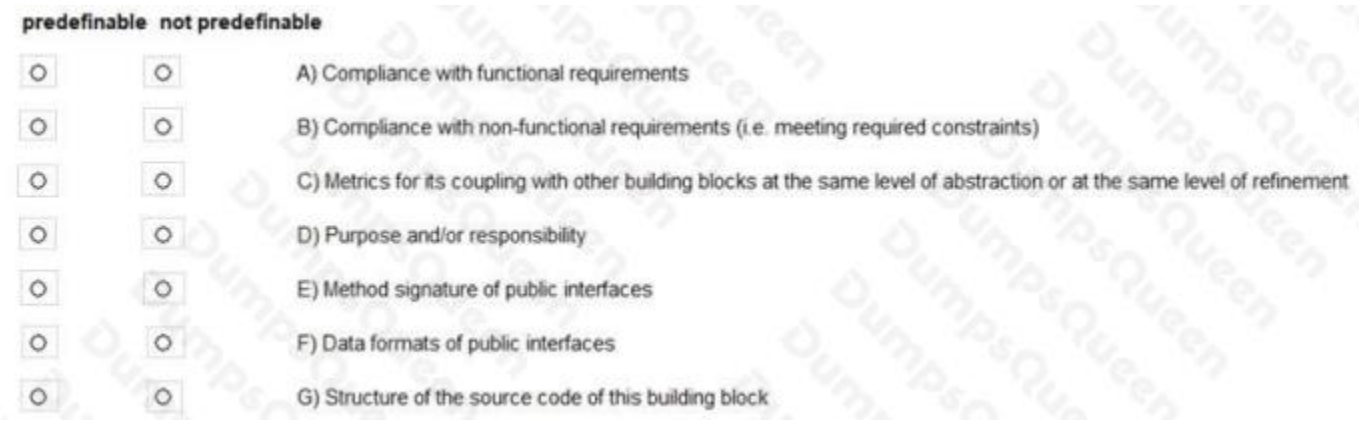
D. A stack usually only provides access to one element at a time.

ANSWER: A D

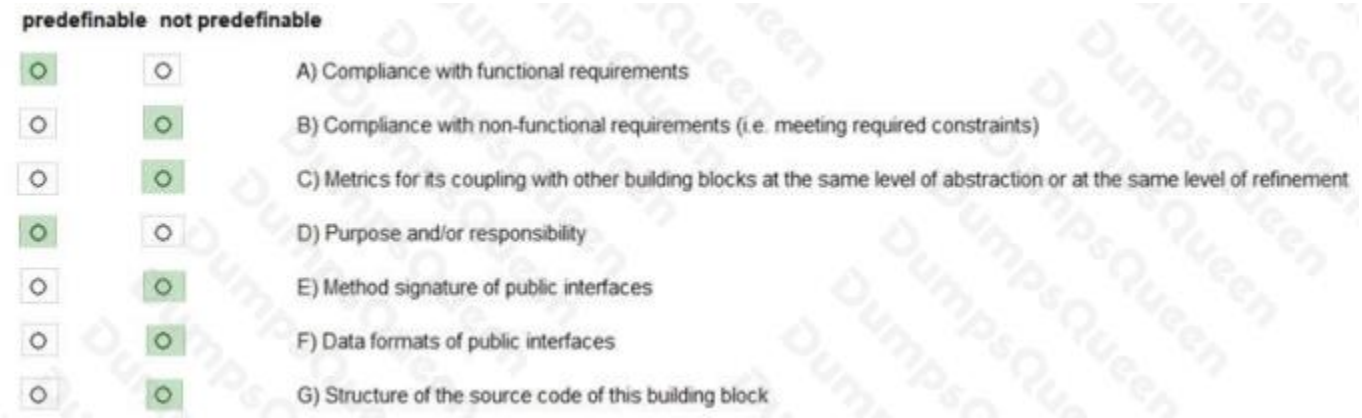
QUESTION NO: 4 - (HOTSPOT)

HOTSPOT

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



ANSWER:



Explanation:

QUESTION NO: 5

Select the two most appropriate methods for evaluating the reliability of a software system.

(Choose two.)

A. Determining the number of ‘lines of code’

B. Measurement of ‘Mean-Time-between-Failure’

C. Execution of performance tests

D. Determination of the cyclomatic complexity

E. Conducting an ATAM evaluation

ANSWER: B C

QUESTION NO: 6

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

ANSWER: A

Explanation:

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

QUESTION NO: 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

ANSWER: A B

QUESTION NO: 8

What do you have to take into account when designing external interfaces? (Choose three.)

A. Volatility of neighbouring systems

B. Adequate usage of the broker pattern

C. Protocols enforced by neighbouring systems

D. Expected amount of parallel calls

E. Ease of implementation

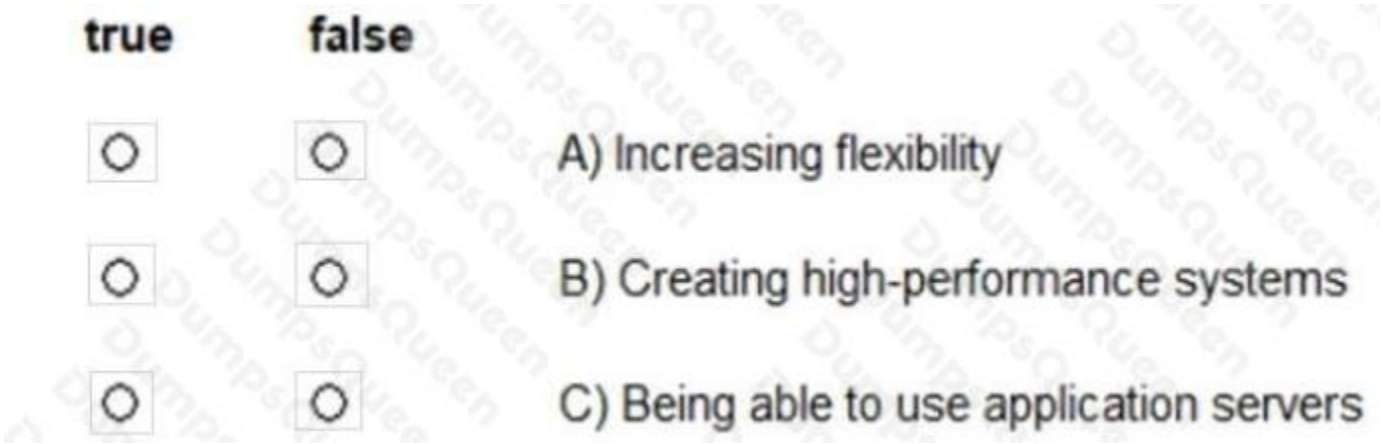
F. Effect on the coupling in the building block view

ANSWER: C E F

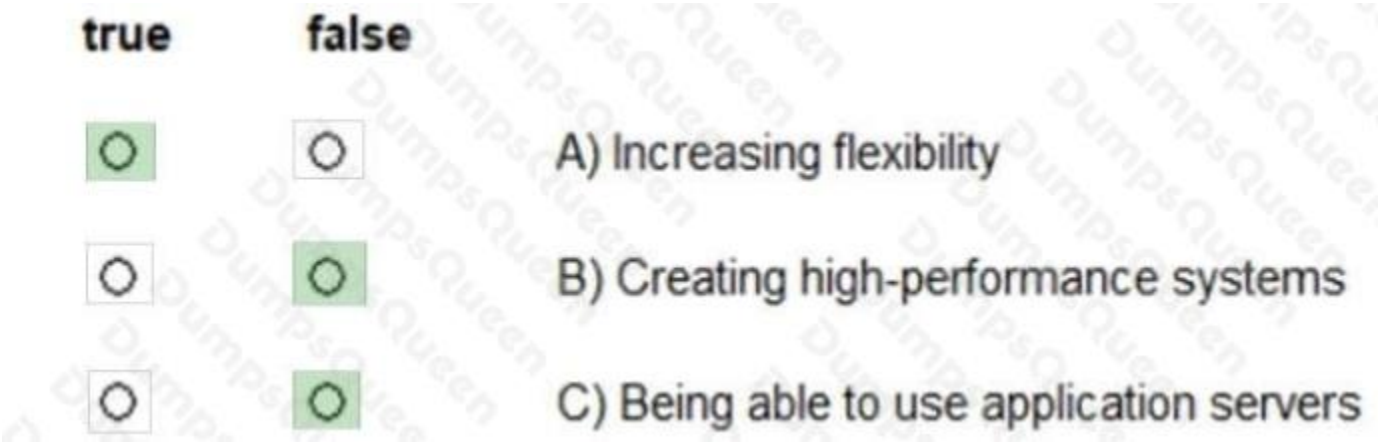
QUESTION NO: 9 - (HOTSPOT)

HOTSPOT

What is the main benefit of the layered architectural pattern? (Assign all answers.)
Hot Area:



ANSWER:

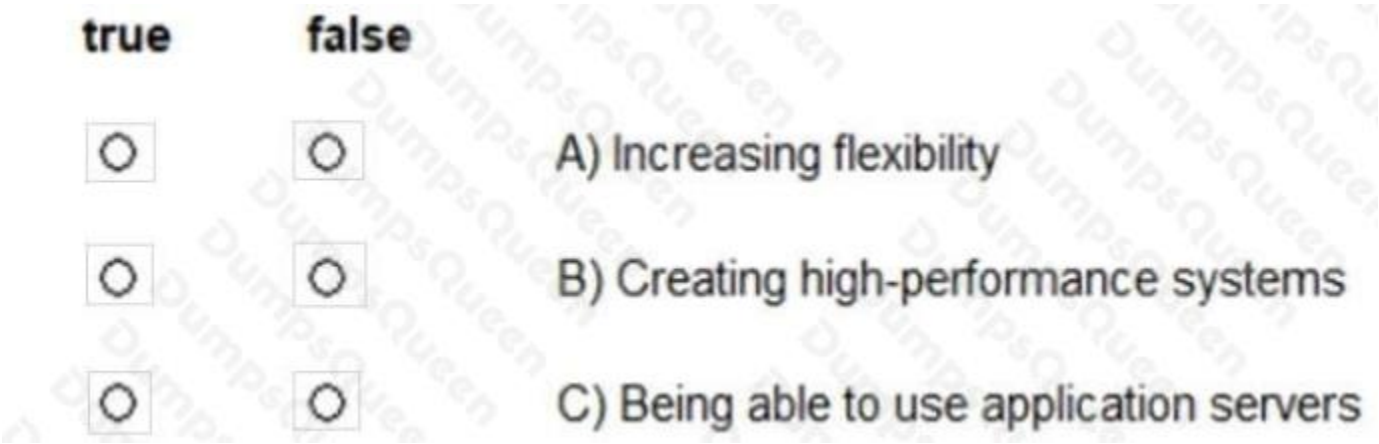


Explanation:

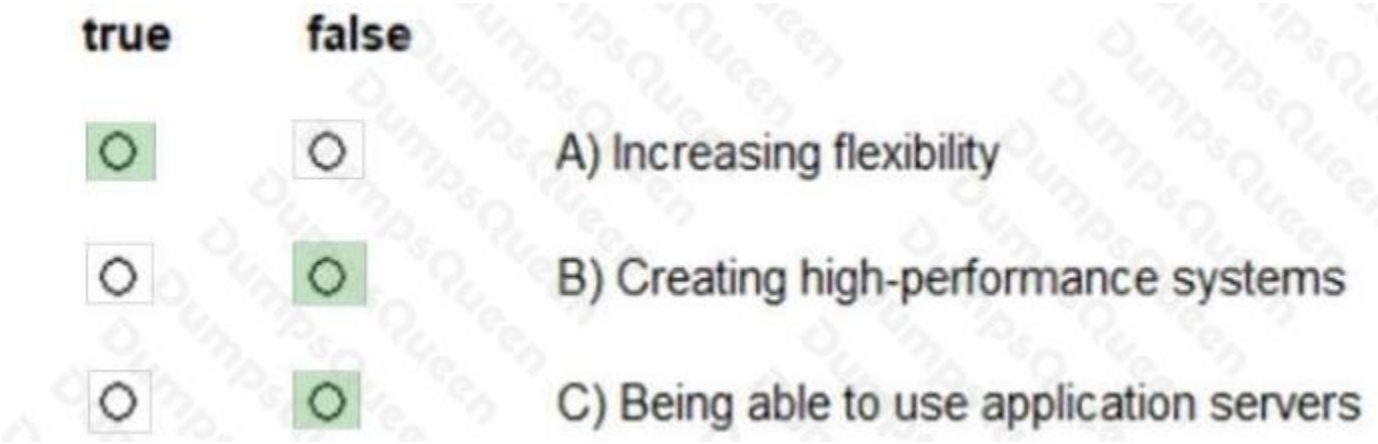
QUESTION NO: 10 - (HOTSPOT)

HOTSPOT

What is the main benefit of the layered architectural pattern? (Assign all answers.)
Hot Area:



ANSWER:



Explanation: