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**Vendor:**ISQI

**Exam Code:**CPSA-FL

**Exam Name:**ISAQB Certified Professional for  
Software Architecture - Foundation Level (CPSA-FL)

**Version:**Demo

**QUESTION 1**

HOTSPOT

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

Hot Area:

**true**

**false**

A) Increasing flexibility

B) Creating high-performance systems

C) Being able to use application servers

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Correct Answer:

**true**

**false**

A) Increasing flexibility

B) Creating high-performance systems

C) Being able to use application servers

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**QUESTION 2**

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

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### QUESTION 3

#### 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

#### QUESTION 4

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

Correct Answer: BC

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#### QUESTION 5

Which two of the following requirements are examples of quality requirements? (Choose two.)

- A. Up to 40,000 requests per day
- B. User should be able to select the sort order freely.
- C. Spelling is corrected automatically.
- D. Failure rate is less than 0.1%.

Correct Answer: BC

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#### QUESTION 6

Which of the following statements about (crosscutting) concepts are most appropriate? (Select four.)

- A. The definition of appropriate concepts ensures the conceptual integrity of the architecture.
- B. Concepts are a means to increase consistency.
- C. For each quality goal there should be an explicitly documented concept.
- D. Uniform exception handling is most easily achieved when architects agree with developers upon a suitable concept prior to implementation.
- E. A concept might be implemented by a single building block.
- F. Uniform usage of concepts reduces coupling between building blocks.
- G. A concept can define constraints for the implementation of many building blocks.

Correct Answer: ABDG

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## QUESTION 7

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

Correct Answer:

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

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## QUESTION 8

### HOTSPOT

Which of the following statements about the coupling between building blocks are correct? (Assign all answers.)

Hot Area:

**true**      **false**

- |                       |                       |   |
|-----------------------|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> | A) A high degree of coupling of a building block reduces its reusability.                     |
| <input type="radio"/> | <input type="radio"/> | B) Low coupling of a building block improves the ability to meet functional requirements.     |
| <input type="radio"/> | <input type="radio"/> | C) Low cohesion often leads to high coupling.   |
| <input type="radio"/> | <input type="radio"/> | D) Loose coupling often leads to less effort for making changes.                              |
| <input type="radio"/> | <input type="radio"/> | E) For call dependencies, the degree of coupling is independent of the direction of the call. |
| <input type="radio"/> | <input type="radio"/> | F) In object-oriented programming languages, inheritance reduces coupling.                    |

Correct Answer:

**true**      **false**

- |                                  |                                  |   |
|----------------------------------|----------------------------------|---|
| <input type="radio"/>            | <input checked="" type="radio"/> | A) A high degree of coupling of a building block reduces its reusability.                     |
| <input type="radio"/>            | <input checked="" type="radio"/> | B) Low coupling of a building block improves the ability to meet functional requirements.     |
| <input checked="" type="radio"/> | <input type="radio"/>            | C) Low cohesion often leads to high coupling.   |
| <input type="radio"/>            | <input checked="" type="radio"/> | D) Loose coupling often leads to less effort for making changes.                              |
| <input type="radio"/>            | <input checked="" type="radio"/> | E) For call dependencies, the degree of coupling is independent of the direction of the call. |
| <input type="radio"/>            | <input checked="" type="radio"/> | F) In object-oriented programming languages, inheritance reduces coupling.                    |

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### QUESTION 9

Which three artifacts does the assessment team create when conducting an ATAM evaluation? (Choose three.)

- A. Architecture-specific chapters of the quality management manual
- B. The concrete quality tree
- C. Description of quality scenarios
- D. A quality model
- E. Architecture documentation
- F. Selection of the quality attributes of the architectural building blocks
- G. List of the architectural risks

Correct Answer: CEG

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## QUESTION 10

### 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	
<input type="radio"/>	<input type="radio"/>	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
<input type="radio"/>	<input type="radio"/>	B) Loosening of direct dependencies between classes through the introduction of interfaces
<input type="radio"/>	<input type="radio"/>	C) Loosening of direct dependencies between classes through the introduction of factories

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
<input checked="" type="radio"/>	<input type="radio"/>	B) Loosening of direct dependencies between classes through the introduction of interfaces
<input type="radio"/>	<input checked="" type="radio"/>	C) Loosening of direct dependencies between classes through the introduction of factories

## QUESTION 11

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/>

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## QUESTION 12

### 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.