

QUESTIONS & ANSWERS

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iSAQB

CPSA-F

*Certified Professional for Software Architecture –
Foundation Level*

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QUESTION 33

HOTSPOT

You are the software architect on a large development project and are entrusted with the task of building a tool chain for continuous architecture evaluation and analysis. Which of the following statements regarding this tool selection are correct/incorrect? (Assign all answers.) **Hot**

Area:

- | correct | incorrect | |
|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> | <input type="radio"/> | A) Tools for static code analysis find all dependencies in the source code. |
| <input type="radio"/> | <input type="radio"/> | B) Several tools for static code analysis can be used to verify compliance with architectural rules. |
| <input type="radio"/> | <input type="radio"/> | C) Tools for static code analysis can reliably measure cohesion. |
| <input type="radio"/> | <input type="radio"/> | D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies. |
| <input type="radio"/> | <input type="radio"/> | E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures. |

Correct Answer:

- | correct | incorrect | |
|----------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> | <input checked="" type="radio"/> | A) Tools for static code analysis find all dependencies in the source code. |
| <input checked="" type="radio"/> | <input type="radio"/> | B) Several tools for static code analysis can be used to verify compliance with architectural rules. |
| <input type="radio"/> | <input checked="" type="radio"/> | C) Tools for static code analysis can reliably measure cohesion. |
| <input type="radio"/> | <input checked="" type="radio"/> | D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies. |
| <input checked="" type="radio"/> | <input type="radio"/> | E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures. |

QUESTION 34

HOTSPOT

Which information is presented in the building-block view? Rate the alternatives below as either true or false. (Assign all answers.)

Hot Area:

Correct Answer:

QUESTION 35

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.

QUESTION 36 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

Correct Answer: CEF

QUESTION 37

HOTSPOT

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

Hot Area:

Correct Answer:

QUESTION 38
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 39 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

Explanation

QUESTION 40 What are known patterns for the adaptation of interfaces? (Choose two.)

- A. Bridge

- B. Tower
- C. Observer
- D. Façade
- E. Wall

Correct Answer: AC

Reference: <https://www.cs.fsu.edu/~myers/cop3331/notes/patterns2.html>

QUESTION 41 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

QUESTION 42 Choose the most desirable characteristics of interfaces.
(Choose three.)

- A. Easy to extend
- B. Geared towards the capabilities of the provider
- C. Clear descriptions of assertions and prerequisites
- D. As few parameters as possible
- E. Scalable to many consumers
- F. Remotely callable
- G. Hard to misuse

Correct Answer: BCF

QUESTION 43
HOTSPOT

Concerning external interfaces, Postel's law suggests: "Be conservative in what you do, be liberal in what you accept from others." Assume that Postel's law has been consistently applied in your system. (Assign all answers.) **Hot Area:**

Correct Answer:

Section: (none)

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