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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	
○	○	A) Tools for static code analysis find all dependencies in the source code.
○	○	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
○	○	C) Tools for static code analysis can reliably measure cohesion.
○	○	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
○	○	E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures.

Correct Answer:

correct	incorrect	
○	○	A) Tools for static code analysis find all dependencies in the source code.
○	○	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
○	○	C) Tools for static code analysis can reliably measure cohesion.
○	○	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
○	○	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	
○	○	A) The chief architect creates the documentation.
○	○	B) Identical templates are used for the documentation.
○	○	C) All parts of the architecture documentation are automatically extracted from the source code.

Correct Answer:

appropriate	not appropriate	
○	○	A) The chief architect creates the documentation.
○	○	B) Identical templates are used for the documentation.
○	○	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	
○	○	A) The dependencies between classes are the responsibility of the developers. No measures are required within the architecture.
○	○	B) Loosening of direct dependencies between classes through the introduction of interfaces
○	○	C) Loosening of direct dependencies between classes through the introduction of factories

Correct Answer:

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