CPSA-FL^{Q&As}

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QUESTION 1

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

QUESTION 2

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

A. Bridge

B. Tower

C. Observer

D. Wall

Correct Answer: AC

Reference: http://www.cs.fsu.edu/~myers/cop3331/notes/patterns2.html

QUESTION 3

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 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

QUESTION 5

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 6

What role does understandability play for architecture documentation? (Choose three.)

A. It is desirable, but not essential.

B. It is less important than completeness.

C. It is an important quality characteristic.

D. It is a quality characteristic together with correctness and efficiency.

E. It is a quality characteristic together with simplicity and brevity.

F. It is a quality characteristic together with scope and completeness.

Correct Answer: CDE

Reference: https://courses.cs.vt.edu/~csonline/SE/Lessons/Qualities/index.html

QUESTION 7

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.

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QUESTION 8

Which of the following statements are covered by the term \\'coupling\\'? (Choose two.)

A. A building block uses an interface of another building block.

B. Two building blocks offer operations with the same name.

C. A building block only contains operations that belong together logically.

D. A building block uses internal data structures of another building block.

Correct Answer: AC

QUESTION 9

HOTSPOT

Conway\\'s law sometimes is referred to as "If you have four teams working on the compiler, you'll get a 4-pass compiler." Which interpretations of this law are true, which are false? (Assign all answers.)

Hot Area:

true	false	
O	O	A) You need four teams to build a compiler.
O	O	B) Structures of software architecture and associated organisation are congruent.
O	O	C) Software architecture is particularly important when creating compilers.
O	O	D) Certain types of software are not suitable for the use of software architecture.

Correct Answer:

true	false	
O	●	A) You need four teams to build a compiler.
●	O	B) Structures of software architecture and associated organisation are congruent.
O	●	C) Software architecture is particularly important when creating compilers.
O	●	D) Certain types of software are not suitable for the use of software architecture.

QUESTION 10

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In a customer project the architecture shall be based on components. The requirements have not been fully determined yet. Taking this constraint into account, which three properties of the components developed by you will you pay particular attention to? (Choose three.)

A. meaningful component names

B. weak coupling

C. strong cohesion

D. open for extension

E. small component size

Correct Answer: CDE

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