

CPSA-FL^{Q&As}

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QUESTION 1

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	
<input type="radio"/>	<input type="radio"/>	A) You need four teams to build a compiler.
<input type="radio"/>	<input type="radio"/>	B) Structures of software architecture and associated organisation are congruent.
<input type="radio"/>	<input type="radio"/>	C) Software architecture is particularly important when creating compilers.
<input type="radio"/>	<input type="radio"/>	D) Certain types of software are not suitable for the use of software architecture.

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) You need four teams to build a compiler.
<input checked="" type="radio"/>	<input type="radio"/>	B) Structures of software architecture and associated organisation are congruent.
<input type="radio"/>	<input checked="" type="radio"/>	C) Software architecture is particularly important when creating compilers.
<input type="radio"/>	<input checked="" type="radio"/>	D) Certain types of software are not suitable for the use of software architecture.

QUESTION 2

HOTSPOT

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

Hot Area:

predefinable not predefinable

- | | | |
|-----------------------|-----------------------|--|
| <input type="radio"/> | <input type="radio"/> | A) Compliance with functional requirements |
| <input type="radio"/> | <input type="radio"/> | B) Compliance with non-functional requirements (i.e. meeting required constraints) |
| <input type="radio"/> | <input type="radio"/> | C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level of refinement |
| <input type="radio"/> | <input type="radio"/> | D) Purpose and/or responsibility |
| <input type="radio"/> | <input type="radio"/> | E) Method signature of public interfaces |
| <input type="radio"/> | <input type="radio"/> | F) Data formats of public interfaces |
| <input type="radio"/> | <input type="radio"/> | G) Structure of the source code of this building block |

Correct Answer:

predefinable not predefinable

- | | | |
|----------------------------------|----------------------------------|--|
| <input checked="" type="radio"/> | <input type="radio"/> | A) Compliance with functional requirements |
| <input type="radio"/> | <input checked="" type="radio"/> | B) Compliance with non-functional requirements (i.e. meeting required constraints) |
| <input type="radio"/> | <input checked="" type="radio"/> | C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level of refinement |
| <input checked="" type="radio"/> | <input type="radio"/> | D) Purpose and/or responsibility |
| <input type="radio"/> | <input checked="" type="radio"/> | E) Method signature of public interfaces |
| <input type="radio"/> | <input checked="" type="radio"/> | F) Data formats of public interfaces |
| <input type="radio"/> | <input checked="" type="radio"/> | G) Structure of the source code of this building block |

QUESTION 3

Name the three most important fields of template-based architecture documentation. (Choose three.)

- A. To describe module structures (white boxes)
- B. To describe individual architectural modules and their external interfaces (black boxes)
- C. To use copyright templates for a consistent description of project/system meta information within documents and source codes
- D. To use a standardized document structure
- E. To reuse code and test case templates

Correct Answer: ABD

Reference: <https://buildmedia.readthedocs.org/media/pdf/roboy-sw-documentation-template/latest/roboy-sw-documentation-template.pdf>

QUESTION 4

Which two of the following statements about quality characteristics are most accurate? (Choose two.)

- A. Flexibility reduces testability
- B. Increased flexibility improves robustness
- C. Simplicity increases comprehensibility
- D. Increased efficiency results in reduced performance

Correct Answer: BC

QUESTION 5

HOTSPOT

You are responsible for the documentation of the software architecture of a large development project. The project consists of three teams, each with its own architect, but with you as the person having overall responsibility of the entire project's software architecture.

Which of the following measures are beneficial? (Assign all answers.)

Hot Area:

beneficial	not beneficial	
<input type="radio"/>	<input type="radio"/>	A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation.
<input type="radio"/>	<input type="radio"/>	B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures.
<input type="radio"/>	<input type="radio"/>	C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project.
<input type="radio"/>	<input type="radio"/>	D) You reject using word processing for the documentation because it is not connected with the source code.
<input type="radio"/>	<input type="radio"/>	E) The developers should document their parts of the architecture documentation using source code.

Correct Answer:

beneficial	not beneficial	
<input type="radio"/>	<input checked="" type="radio"/>	A) As a first step, you divide the whole architecture documentation into sub-documents for each of the three sub-projects and then leave it up to each sub-project to define the internal structure of the respective architecture documentation.
<input type="radio"/>	<input checked="" type="radio"/>	B) You predefine the structure of the entire architecture documentation. The sub-teams must adhere to the predefined document structures.
<input type="radio"/>	<input checked="" type="radio"/>	C) You leave the decision regarding the documentation structure to the team that first begins the documentation of its sub-project.
<input type="radio"/>	<input checked="" type="radio"/>	D) You reject using word processing for the documentation because it is not connected with the source code.
<input checked="" type="radio"/>	<input type="radio"/>	E) The developers should document their parts of the architecture documentation using source code.

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