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QUESTION 1

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.
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<input type="radio"/>	<input checked="" type="radio"/>	F) In object-oriented programming languages, inheritance reduces coupling.

QUESTION 2

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.

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

HOTSPOT

Which statements regarding top-down and bottom-up design are true? (Assign all answers.)

Hot Area:

- | true | false | |
|-----------------------|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> | A) Top-down and bottom-up design may be employed in the same project. |
| <input type="radio"/> | <input type="radio"/> | B) Top-down requires that details be ignored initially. |
| <input type="radio"/> | <input type="radio"/> | C) Architects leave the bottom-up design to developers. |
| <input type="radio"/> | <input type="radio"/> | D) Generally, architects should work top-down. |
| <input type="radio"/> | <input type="radio"/> | E) Bottom-up design means to proceed from the abstract to the concrete. |
| <input type="radio"/> | <input type="radio"/> | F) Different ideas about top-down and bottom-up approaches constitute a potential for conflict. |

Correct Answer:

- | true | false | |
|----------------------------------|----------------------------------|---|
| <input type="radio"/> | <input checked="" type="radio"/> | A) Top-down and bottom-up design may be employed in the same project. |
| <input type="radio"/> | <input checked="" type="radio"/> | B) Top-down requires that details be ignored initially. |
| <input checked="" type="radio"/> | <input type="radio"/> | C) Architects leave the bottom-up design to developers. |
| <input checked="" type="radio"/> | <input type="radio"/> | D) Generally, architects should work top-down. |
| <input type="radio"/> | <input checked="" type="radio"/> | E) Bottom-up design means to proceed from the abstract to the concrete. |
| <input type="radio"/> | <input checked="" type="radio"/> | F) Different ideas about top-down and bottom-up approaches constitute a potential for conflict. |

QUESTION 5

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 6

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 7

Which of the following statements apply to design patterns? (Choose two.)

- A. Design patterns are not invented but discovered.
- B. Design patterns should always be described alongside the problem they are supposed to solve.
- C. Design patterns are formally defined and can thus be proven to be correct.
- D. The number of design patterns used is proportional to the software architecture's quality.

Correct Answer: AB

QUESTION 8

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.

QUESTION 9

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 10

What are the four key terms in common definitions of software architecture? (Choose four.)

- A. Source code
- B. Building Blocks
- C. Functionality
- D. Relationships
- E. Components
- F. Requirements
- G. Interfaces

Correct Answer: BDEF



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Reference: http://www.michael-richardson.com/processes/rup_for_sqa/core.base_rup/guidances/concepts/software_architecture_4269A354.html

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