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QUESTION 1

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 2

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 3**

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 4

You want to demonstrate to colleagues that certain building blocks are suitable for the implementation of a use-case scenario. Which of the following UML diagrams is best suited for this?

- A. Use-case diagram
- B. Sequence diagram
- C. Activity diagram
- D. Class diagram



Correct Answer: A

Reference: <https://www.lucidchart.com/pages/uml-use-case-diagram>

QUESTION 5

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 6

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 7

HOTSPOT

What is the purpose of defining the system context? (Assign all answers.)

Hot Area:



true	false	
<input type="radio"/>	<input type="radio"/>	A) To illustrate the relationships between internal system components
<input type="radio"/>	<input type="radio"/>	B) To illustrate the system's interfaces with external systems
<input type="radio"/>	<input type="radio"/>	C) To clarify the area of responsibility of the software architect
<input type="radio"/>	<input type="radio"/>	D) To represent the external systems
<input type="radio"/>	<input type="radio"/>	E) To distinguish between infrastructure and application
<input type="radio"/>	<input type="radio"/>	F) To distinguish between the hardware and software of a solution

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) To illustrate the relationships between internal system components
<input checked="" type="radio"/>	<input type="radio"/>	B) To illustrate the system's interfaces with external systems
<input type="radio"/>	<input checked="" type="radio"/>	C) To clarify the area of responsibility of the software architect
<input type="radio"/>	<input checked="" type="radio"/>	D) To represent the external systems
<input type="radio"/>	<input checked="" type="radio"/>	E) To distinguish between infrastructure and application
<input type="radio"/>	<input checked="" type="radio"/>	F) To distinguish between the hardware and software of a solution

QUESTION 8

HOTSPOT

Which of the following aspects are more of a domain-related nature, and which more of technical nature? (Assign all answers.)

Hot Area:



more technical

more domain-related

A) Choosing a database

B) Modelling a banking account

C) Legal constraints for the execution of a money transfer

D) Choosing a layout manager in a GUI

E) The average number of methods per class

F) Specification of a calculation formula

Correct Answer:

more technical

more domain-related

A) Choosing a database

B) Modelling a banking account

C) Legal constraints for the execution of a money transfer

D) Choosing a layout manager in a GUI

E) The average number of methods per class

F) Specification of a calculation formula

QUESTION 9

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 10

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>

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