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Question 1

Question Type: Hotspot

You are supposed to choose a software-architecture modeling tool for a software-development project. You create a suitable criteria catalogue for the choice of appropriate tools.

Which of the following factors can play a role in this? (Assign all answers.)

true

false

A) Multi-user capability

Answer:

B) Support of UML 2.x and SysML

C) Document generation

Question 2

D) Support of model transformations in preparation of the code generation

Question Type: Hotspot

E) Support of code generation

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

F) Compliance with standards

G) Purchase and licensing costs

true

false

A) To illustrate the relationships between internal system components

Answer:

B) To illustrate the system's interfaces with external systems

C) To clarify the area of responsibility of the software architect

Question 3

D) To represent the external systems

Question Type: Hotspot

E) To distinguish between infrastructure and application

Decide if the following statements are true or false. The performance of a system (response time or throughput) often competes with its... (Assign all answers.)

F) To distinguish between the hardware and software of a solution

true **false**

 A) flexibility

Answer:

 B) memory usage

 C) on-time completion of the project

Question 4

 D) adaptability

Question Type: Hotspot

 E) usability

What is the main benefit of the layered architectural pattern? (Assign all answers.)

 F) security

true **false**

 A) Increasing flexibility

Answer:

 B) Creating high-performance systems

 C) Being able to use application servers

Question 5

Question Type: 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.)

true

false

A) You need four teams to build a compiler.

Answer:

~~B) Structures of software architecture and associated organisation are congruent.~~

C) Software architecture is particularly important when creating compilers.

Question 6

~~D) Certain types of software are not suitable for the use of software architecture.~~

Question Type: Hotspot

Which of the following statements regarding the design principle 'information hiding' are true and which are false? (Assign all answers.)

true

false

A) Adhering to the 'information hiding' principle increases flexibility for modifications.

Answer:

~~B) Information hiding involves deliberately hiding information from callers or consumers of the building block.~~

C) Information hiding makes it harder to distinguish between interface and implementation.

Question 7

~~D) Information hiding is a derivative of the approach of incremental refinement along the control flow.~~

Question Type: Hotspot

~~E) In object-oriented development, information hiding is primarily relevant at class level.~~

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

more technical

more domain-related

A) Choosing a database

Answer:

B) Modelling a banking account

C) Legal constraints for the execution of a money transfer

Question 8

D) Choosing a layout manager in a GUI

Question Type: Hotspot

E) The average number of methods per class

Which characteristics of a building block are only visible in the whitebox view, and for which characteristics does the blackbox view suffice? (Assign all answers.)

F) Specification of a calculation formula

Blackbox Whitebox

A) Public interfaces of the building block

Answer:

B) Test coverage based on unit tests for sub building blocks contained in the building block

C) Test coverage based on integration tests

Question 9

D) Code structure of the building block

Question Type: Hotspot

E) Algorithms used in the building block

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

F) Security requirements of the building blocks

predefinable not predefinable

A) Compliance with functional requirements

B) Compliance with non-functional requirements (i.e. meeting required constraints)

C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level

D) Purpose and/or responsibility

E) Method signature of public interfaces

F) Data formats of public interfaces

G) Structure of the source code of this building block

Answer:

Question 10

Question Type: MultipleChoice

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

Options:

- 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

Answer:

A, B, D

Question 11

Question Type: Hotspot

How are written documentation and verbal communication of software architectures related? Please mark the following statements as true or false. (Assign all answers.)

true	false	
<input type="radio"/>	<input type="radio"/>	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute 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 source code.
<input type="radio"/>	<input type="radio"/>	F) Communication and documentation complement each other: verbal communication helps architects determine what to record in writing.

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