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QUESTION 1

HOTSPOT

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

Hot Area:

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 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 2

HOTSPOT

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.)

Hot Area:

true

false

A) flexibility

B) memory usage

C) on-time completion of the project

D) adaptability

E) usability

F) security

G) testability

Correct Answer:

true

false

A) flexibility

B) memory usage

C) on-time completion of the project

D) adaptability

E) usability

F) security

G) testability

QUESTION 3

Which three artifacts does the assessment team create when conducting an ATAM evaluation? (Choose three.)

- A. Architecture-specific chapters of the quality management manual
- B. The concrete quality tree
- C. Description of quality scenarios
- D. A quality model
- E. Architecture documentation
- F. Selection of the quality attributes of the architectural building blocks
- G. List of the architectural risks

Correct Answer: CEG

QUESTION 4

Which of the following statements are correct? (Choose two.)

- A. The push operation usually places a new element onto a stack.
- B. A stack acts exactly like a queue.
- C. A stack is organized according to the FIFO principle.
- D. A stack usually only provides access to one element at a time.

Correct Answer: AD

QUESTION 5

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 6

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 7

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 8**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.)

Hot Area:

true	false	
<input type="checkbox"/>	<input type="checkbox"/>	A) Multi-user capability
<input type="checkbox"/>	<input type="checkbox"/>	B) Support of UML 2.x and SysML
<input type="checkbox"/>	<input type="checkbox"/>	C) Document generation
<input type="checkbox"/>	<input type="checkbox"/>	D) Support of model transformations in preparation of the code generation
<input type="checkbox"/>	<input type="checkbox"/>	E) Support of code generation
<input type="checkbox"/>	<input type="checkbox"/>	F) Compliance with standards
<input type="checkbox"/>	<input type="checkbox"/>	G) Purchase and licensing costs

Correct Answer:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) Multi-user capability
<input checked="" type="radio"/>	<input type="radio"/>	B) Support of UML 2.x and SysML
<input type="radio"/>	<input checked="" type="radio"/>	C) Document generation
<input type="radio"/>	<input checked="" type="radio"/>	D) Support of model transformations in preparation of the code generation
<input checked="" type="radio"/>	<input type="radio"/>	E) Support of code generation
<input type="radio"/>	<input checked="" type="radio"/>	F) Compliance with standards
<input type="radio"/>	<input checked="" type="radio"/>	G) Purchase and licensing costs

QUESTION 9

HOTSPOT

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

Hot Area:

true	false	
<input type="radio"/>	<input type="radio"/>	A) Increasing flexibility
<input type="radio"/>	<input type="radio"/>	B) Creating high-performance systems
<input type="radio"/>	<input type="radio"/>	C) Being able to use application servers

Correct Answer:

true

false

A) Increasing flexibility

B) Creating high-performance systems

C) Being able to use application servers

QUESTION 10

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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