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QUESTION 1

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 2

HOTSPOT

You are the software architect on a large development project and are entrusted with the task of building a tool chain for continuous architecture evaluation and analysis. Which of the following statements regarding this tool selection are correct/incorrect? (Assign all answers.)

Hot Area:

correct	incorrect	
O	O	A) Tools for static code analysis find all dependencies in the source code.
O	O	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
O	O	C) Tools for static code analysis can reliably measure cohesion.
O	O	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
O	O	E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures.

Correct Answer:

correct	incorrect	
O	O	A) Tools for static code analysis find all dependencies in the source code.
O	O	B) Several tools for static code analysis can be used to verify compliance with architectural rules.
O	O	C) Tools for static code analysis can reliably measure cohesion.
O	O	D) Tools for static code analysis can also be used to optimize runtime efficiency by highlighting dependencies.
O	O	E) Tools for dynamic analysis, such as profilers, cannot be used to optimize static structures.

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QUESTION 3

HOTSPOT

Which statements with regard to project objectives and architectural objectives are true and which are false? (Assign all answers.)

Hot Area:

true	false	
◯	◯	A) Architectural objectives and project objectives need to be identical.
◯	◯	B) Most of the time, architectural objectives are of a more long-term nature than project objectives.
◯	◯	C) Architectural objectives and project objectives need to be negotiated between the concerned parties.
◯	◯	D) Architectural objectives are a subset of project objectives.

Correct Answer:

true	false	
◯	◉	A) Architectural objectives and project objectives need to be identical.
◉	◯	B) Most of the time, architectural objectives are of a more long-term nature than project objectives.
◯	◉	C) Architectural objectives and project objectives need to be negotiated between the concerned parties.
◯	◉	D) Architectural objectives are a subset of project objectives.

QUESTION 4

Which of the following techniques are best suited to illustrate the interaction of runtime building blocks? Select the four most suitable techniques.

A. Activity diagrams

B. Sequence diagrams

C. State diagram

D. Flowcharts

E. Class diagrams

F. Tabular description of interfaces

G. Depiction of screen flows (sequence of user interactions)

H. Numbered lists of sequential steps

Correct Answer: ABCE

Reference: https://www.smartdraw.com/uml-diagram/

QUESTION 5

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

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