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**QUESTION 1****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 2**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 3**HOTSPOT**

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

Hot Area:



true false

☐☐

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

☐☐

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.

☐☐

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

☐☐

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

Correct Answer:

true false

☐☒

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

☐☒

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.

☐☒

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

☐☒

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

QUESTION 4

Which views should software architects document? Select the three most popular views.

- A. Deployment view
- B. Data view
- C. Runtime view
- D. Configuration view
- E. Non-functional view
- F. Link view
- G. Stakeholder view
- H. Building-block view
- I. Interface view

Correct Answer: ABD

Reference: http://www.michael-richardson.com/processes/rup_for_sqa/core.base_rup/guidances/guidelines/software_architecture_document_F4C93435.html



QUESTION 5

Which of the following statements about (crosscutting) concepts are most appropriate? (Select four.)

- A. The definition of appropriate concepts ensures the conceptual integrity of the architecture.
- B. Concepts are a means to increase consistency.
- C. For each quality goal there should be an explicitly documented concept.
- D. Uniform exception handling is most easily achieved when architects agree with developers upon a suitable concept prior to implementation.
- E. A concept might be implemented by a single building block.
- F. Uniform usage of concepts reduces coupling between building blocks.
- G. A concept can define constraints for the implementation of many building blocks.

Correct Answer: ABDG

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