

# **Free Questions for CPSA-FL by go4braindumps**

## Shared by Michael on 24-05-2024

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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	
0	0	A) Multi-user capability
Answer:	0	B) Support of UML 2.x and SysML
0	0	C) Document generation
Questi	on <u>2</u>	D) Support of model transformations in preparation of the code generation
Question Typ	e: Hotspot	E) Support of code generation
What is the purpose of defining the system context (Assignsall answers.)		

O
G) Purchase and licensing costs

true	false	
0	0	A) To illustrate the relationships between internal system components
Answer:		
0	0	B) To illustrate the system's interfaces with external systems
0	0	C) To clarify the area of responsibility of the software architect
Question	1 <mark>3</mark>	D) To represent the external systems
Question Type:	O O	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.)

true	false	
0	0	A) flexibility
Answer:		
0	0	B) memory usage
0	0	C) on-time completion of the project
Questio	n <u>4</u>	D) adaptability
<b>Question Type</b> :	Hotspot	
0	0	E) usability
What is the main benefit of the lavered architectural pattern? (Assign all answers.)		
true	false	
0	0	A) Increasing flexibility
Answer:		B) Creating high-performance systems
0	0	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."

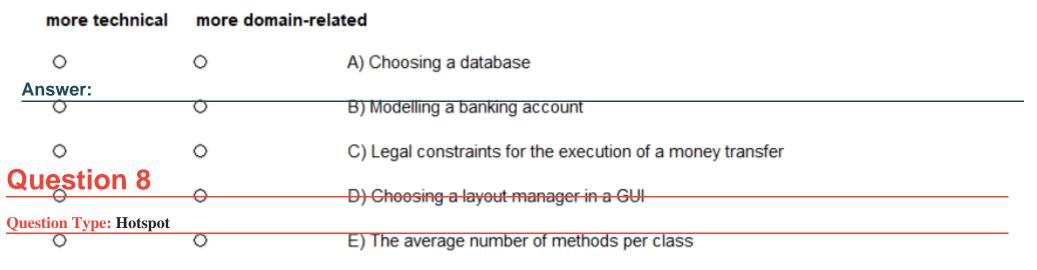
Which interpretations of this law are true, which are false? (Assign all answers.)

true	false	
0	0	A) You need four teams to build a compiler.
Answer:	0	B) Structures of software architecture and associated organisation are congruent.
0	0	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.)

t	rue	false	
	0	0	A) Adhering to the 'information hiding' principle increases flexibility for modifications.
Ans	wer:	0	B) Information hiding involves deliberately hiding information from callers or consumers of the building block.
	0	0	C) Information hiding makes it harder to distinguish between interface and implementation.
Question 7		3	D) Information hiding is a derivative of the approach of incremental refinement along the control flow.
Questi	on Type: H	Iotspot O	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.)



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.)

#### Blackbox Whitebox

~	~	
0	0	A) Public interfaces of the building block
Answer:	~	D) Test sourcess based on unit tests for sub building blacks contained in the building black
0	0	B) Test coverage based on unit tests for sub building blocks contained in the building block
0	0	C) Test coverage based on integration tests
Questic	on 9	
0	0	D) Code structure of the building block
Question Type		
0	0	E) Algorithms used in the building block
Which chara	acteristics of a	a black-box building block are you able to specify as an architect? (Assign all answers.)
prede	finable not	predefinable
0	0	A) Compliance with functional requirements
0	0	B) Compliance with non-functional requirements (i.e. meeting required constraints)
0	0	C) Metrics for its coupling with other building blocks at the same level of abstraction or at the same level
0	0	D) Purpose and/or responsibility
0	0	E) Method signature of public interfaces
0	0	F) Data formats of public interfaces
0	0	G) Structure of the source code of this building block

### **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:

### **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	
O Answer:	0	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can sub documentation.
0	0	B) Written documentation makes verbal reiteration unnecessary.
0	0	C) Despite written documentation, verbal communication of architectural interrelationships is important.
0	0	D) Documentation and communication should use identical terms and rationale.
0	0	E) Documentation should be created primarily for project participants who either cannot or do not want to read source code.
0	0	F) Communication and documentation complement each other: verbal communication helps architects detern recorded in writing.

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