$\underline{\mathsf{Dashboard}} \ / \ \underline{\mathsf{My}} \ \mathsf{courses} \ / \ \underline{\mathsf{S1-24}} \ \mathsf{MERGEDSA} \ / \ \mathsf{General} \ / \ \underline{\mathsf{Quiz}} \ \underline{\mathsf{Special}}$

Started on	Sunday, 3 November 2024, 9:42 PM
State	Finished
Completed on	Sunday, 3 November 2024, 9:50 PM
Time taken	8 mins 11 secs
Marks	23.00/25.00
Grade	4.60 out of 5.00 (92 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	
NAVID DE CONTROL DO CO	
what is the primar	y purpose of the map-reduce pattern?
a. To optimiz	e memory usage in small-scale systems
	a user-friendly interface for big data systems
	rge datasets in a distributed manner
d. To perform	n distributed sorting and analysis of data 🗸
Th	with To work and distributed continuous description of data
The correct answe	r is: To perform distributed sorting and analysis of data
Question 2	
Correct	
Mark 1.00 out of 1.00	
What is a significar	nt benefit of the Microkernel pattern?
a. It guarante	ees high performance under all conditions
b. It separate	es policy and mechanism for flexibility 🗸
	es the need for external communication protocols
	s the system's design complexity
d. It increase	s the system s design complexity
The correct answe	r is: It separates policy and mechanism for flevibility

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Question 3	
Correct	
Mark 1.00 out of 1.00	
Question 11: What is the primary goal of the Architecture	Tradeoff Analysis Method (ATAM)?
 a. To avoid tradeoffs 	
 b. To focus on the most important concerns of stake 	eholders 🗸
c. To analyze all aspects of an architecture	
d. To follow a waterfall approach	
Си. По топом а матеглан арргоасті	
The correct answer is: To focus on the most important co	ncerns of stakeholders
Question 4	
Correct	
Mark 1.00 out of 1.00	
Mark 1.00 Out of 1.00	
What technique can be used to handle the situation wher	e frequently used data needs to be accessed quickly?
a. Client-side caching 	
b. Asynchronous communication	
c. Data layer techniques	
od. Session management	
The correct answer is: Client-side caching	
, and the second	
Question 5	
Correct	
Mark 1.00 out of 1.00	
The Logical View's notation example is associated with:	
oa. UML	
b. Philippe Kruchten, Rational Software Corp. 	
c. Harvinder S Jabbal	
od. Rational Rose	
The correct answer is: Philippe Kruchten, Rational Softwa	re Corp.

/1	12/24, 9:32 AM		Quiz Special: Attempt re	view	
	Question 6 Correct Mark 1.00 out of 1.00				
	As a. Coding practices b. Project management c. Testing strategies d. Software architecture	bout and manage change in a s	oftware system is primarily	influenced by:	
	The correct answer is: Softwar	e architecture			
	Question 7 Correct Mark 1.00 out of 1.00				
	In the Blackboard architecture a. They are removed once b. They are categorized c. They are never altered d. They remain permane	by difficulty. I once created.	during problem-solving?		
	The correct answer is: They ar	e removed once rejected.			
	Question 8 Correct Mark 1.00 out of 1.00				
	What is a primary benefit of la	yered architecture?			
	a. Reusable lower layer ofb. Complex integration ofc. Increased coupling bed. No separation of concentration	f components tween layers			
	The correct answer is: Reusab	le lower layer components			

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12/24, 9:32	AM Quiz Special: Attempt review
Question S Correct	
Mark 1.00	out of 1.00
J0752	What work product of architecture design can be used to prioritize test cases?
	Sequence diagrams Utility tree ✓
c.	Class diagrams
O d.	Use case diagrams
The co	rrect answer is: Utility tree
Question 1	10
Mark 1.00	out of 1.00
What is	s the primary objective of using the Architecture Tradeoff Analysis Method (ATAM)?
a.	To develop detailed design documents
b.	To finalize software design
C.	To write code and test functionality
d.	To evaluate architectural trade-offs and quality attributes ✓
The co	rrect answer is: To evaluate architectural trade-offs and quality attributes
Question 1	11
Mark 1.00	out of 1.00
What is	s a major benefit of the pipe-and-filter pattern?
a.	It ensures that filters never change during execution
b.	It allows for components to execute in parallel 🗸
C.	It eliminates the need for data transformation
O d.	It ensures tight coupling between components
The co	rroot anguer is: It allows for components to execute in parallel

2/24, 9:32 AM	Quiz Special: Attempt review
Question 12	
Correct	
Mark 1.00 out of 1.00	
How are map-reduce instances expected to	communicate with each other?
 a. Direct data sharing between map fur 	nctions
O b. Using intermediary communication t	iers
o. Through shared memory buffers	
od. Via <key, value=""> pairs emitted from r</key,>	nap instances 🗸

The correct answer is: Via <key, value> pairs emitted from map instances

Question 13

Correct

Mark 1.00 out of 1.00

According to the document, what is a key issue with maintaining architecture?

- a. Overlapping views
- b. Inconsistency problem
- oc. Excessive documentation
- od. Lack of stakeholder involvement

The correct answer is: Inconsistency problem

Question 14

Correct

Mark 1.00 out of 1.00

According to Gartner, what should infrastructure leaders focus on before deploying cloud computing?

- lacktriangledown a. Completing service definitions and linking them to business outcomes \checkmark
- Ob. Outsourcing all IT operations to third-party providers
- oc. Buying new hardware for cloud operations
- Od. Implementing public cloud services only

The correct answer is: Completing service definitions and linking them to business outcomes

12/24, 9.52 AW Quiz Special. Attempt to	view
Question 15 Incorrect	
Mark 0.00 out of 1.00	
 What is the purpose of using disposable resources in the cloud? a. To replace manual resource management × b. To ensure resources are fixed permanently c. To build complex fixed servers d. To automate scaling processes 	
The correct answer is: To automate scaling processes	
Question 16 Correct Mark 1.00 out of 1.00	
What does partitioning a multi-tenant application help achieve? □ a. Elimination of elasticity □ b. Reduced availability □ c. Increased data isolation ✓ □ d. Single-layer architecture	
The correct answer is: Increased data isolation	
Question 17 Correct Mark 1.00 out of 1.00	
What is a key architectural pattern mentioned in the Microsoft Application Architecture G a. Centralized manual servers b. Multi-tier applications ✓ c. Single-layer deployment d. Simplistic monolith design	uide?
The correct answer is: Multi-tier applications	

/12/24, 9:32 AM	Quiz Special: Attempt review	
Question 18		
Correct		
Mark 1.00 out of 1.00		
What do component-and-connecto	or structures help to answer?	
a. What is the assignment of	software elements to development teams	
b. What modules are related t	to other modules	
c. What the primary functiona	al responsibility of each module is	
d. What are the major executi	ring components and how they interact 🗸	
The correct answer is: What are the	e major executing components and how they interact	
Question 19		
Question 19 Correct		
Mark 1.00 out of 1.00		
Wark 1.00 out of 1.00		
J0773 How can architecture aid in t	testing modules that interact with external systems?	
 a. By automating all external s 	system tests	
b. By reducing the scope of e		
c. By simplifying the code stre		
d. By identifying which extern		
The correct answer is: By identifyin	ng which external systems need testing	
Question 20		
Correct		
Mark 1.00 out of 1.00		
J0787 During the architecture analy	lysis phase, what is one of the possible restrictions that could be validated?	
a. Components should not co	ommunicate with external systems	
	nly be through specific components 🗸	
c. Objects can call other obje		
d. The user interface must co		

The correct answer is: Database access should only be through specific components

/12/24, 9:32 AM	Quiz Special: Attempt review
Question 21	
Correct	
Mark 1.00 out of 1.00	
Which of the following is a principle of software architecture?	
b. Ensuring key quality attributes 	
oc. Ignoring architectural patterns	
Od. Hard-coding components	
The correct answer is: Ensuring key quality attributes	
Question 22 Incorrect	
Mark 0.00 out of 1.00	
How is user interaction typically achieved in modern interactive sy	stems? A. Command-line interfaces
a. Graphical user interfaces ×	
○ b. Remote procedures	
o. Text-based input only	
The correct answer is: Remote procedures	
Question 23	
Correct	
Mark 1.00 out of 1.00	
What is the primary role of a hypervisor in virtualization?	
a. It provides a distributed file system for the cloud.	
b. It creates and manages virtual machines.	
o. It manages physical memory allocation among virtual made	chines.
Od. It allows multiple applications to share the same operating	g system.

The correct answer is: It creates and manages virtual machines.

/12/24, 9:32 AM	Quiz Special: Attempt review	
Question 24		
Correct		
Mark 1.00 out of 1.00		
J0721 In the layered architecture	e, how should code indicate its layer?	
a. By including comments	specifying the layer ✓	
b. By using different variab	ole names	
c. By using different progra	amming languages	
Od. By avoiding use of the d	database	
The correct answer is: By includi	ling comments specifying the layer	
Question 25		
Correct		
Mark 1.00 out of 1.00		
What does the "control compone	ent" do in the Blackboard architecture?	
 a. Acts as a user interface. 		
b. Executes all knowledge :	sources simultaneously.	
c. Monitors changes on the	e blackboard and schedules knowledge source evaluations. 🗸	
od. Stores all data permaner	ntly.	
The correct answer is: Monitors	changes on the blackboard and schedules knowledge source evaluations.	
■ Quiz 2		
Jump to		\$

Quiz 3 (CS11) ▶