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Started on	Wednesday, 23 October 2024, 3:26 PM		
State	Finished		
Completed on	Wednesday, 23 October 2024, 3:30 PM		
Time taken	4 mins 12 secs		
Marks	9.00/10.00		
Grade	4.50 out of 5.00 (90 %)		
Question 1 Correct Mark 1.00 out of 1.00			
Walk 1.00 dat of 1.00			
How are map-reduce instances expected to communicate with each other?			
a. Via <key, value=""> pairs emitted from map instances </key,>			
b. Direct data	a sharing between map functions		
c. Using inter	mediary communication tiers		
od. Through s	nared memory buffers		

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

Question 2		
Correct		
Mark 1.00 out of 1.00		

18. What is a challenge faced when using the shared-data pattern?

a. Data cannot be made persistent
b. It introduces performance bottlenecks at the shared store
c. Data is difficult to share among multiple components
d. It creates complex dependencies between servers

The correct answer is: It introduces performance bottlenecks at the shared store

Question 3
Correct
Mark 1.00 out of 1.00
12. Which of the following is a potential weakness of the shared-data pattern?
a. Independent data stores are required for each component
b. Data accessors cannot communicate with the store
⊚ c. Shared-data store may become a bottleneck ✓
Od. Data is never persistent
The correct answer is: Shared-data store may become a bottleneck
Question 4
Correct
Mark 1.00 out of 1.00
Which term refers to the abstraction used by external servers to build their application view?
o a. Client
○ b. Metaobject protocol
○ c. Personality ✓
○ d. Adapter
The correct answer is: Personality
Question 5
Correct
Mark 1.00 out of 1.00
13. What type of connector is used in the shared-data pattern?
a. Peer-to-peer messaging
b. Data reading and writing
○ c. Event dispatcher
○ d. Request/reply

The correct answer is: Data reading and writing

6/24, 8:36 A	AM Quiz 3 (CS11): Attempt review
Question 6	
Correct	
Mark 1.00 d	out of 1.00
What is	the primary function of the metaobject protocol (MOP) in the Reflection pattern?
a.	Enable dynamic changes to metaobjects 🗸
b.	Provide communication facilities between servers
c.	Encapsulate external services
d.	Manage hardware resources
The cor	rrect answer is: Enable dynamic changes to metaobjects
Question 7 Correct	
Mark 1.00 d	out of 1.00
a.b.c.d.	a significant benefit of the Microkernel pattern? It eliminates the need for external communication protocols It separates policy and mechanism for flexibility It guarantees high performance under all conditions It increases the system's design complexity Trect answer is: It separates policy and mechanism for flexibility
Question 8 Incorrect Mark 0.00	
What is a. b. c.	a common concern with adding a scheduling policy to a system? Complex tier mapping Increased latency between components × Difficulty in future modification
d.	Reduced data availability

The correct answer is: Difficulty in future modification

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Question \$)
Correct	
Mark 1.00	out of 1.00
What is	s a key characteristic of map functions in the map-reduce pattern?
○ a.	They are deployed as a single instance
b.	They maintain a persistent state
c.	They are stateless and independent ✓
O d.	They communicate frequently with each other
The co	rrect answer is: They are stateless and independent
Question 1	10
Correct	
Mark 1.00	out of 1.00
What is	s the primary focus of the Design for Change principle in adaptable systems?
○ a.	Reducing system complexity
b.	Implementing new hardware support without redesign
c.	Increasing system performance under load
d.	Allowing modification without impacting core functionality 🗸
The co	rrect answer is: Allowing modification without impacting core functionality
⋖ Qui	z 3 (CS10)

Quiz 3 (CS12) ▶