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		Wednesday, 20 August 2025, 12:36 PM
		Finished
		Wednesday, 20 August 2025, 12:47 PM
		11 mins 6 secs
		28.00/30.00
	Grade	93.33 out of 100.00
Question 1		
Complete		
Mark 1.00 o	ut of 1.00	
Edge ca	ching reduces	
(a.	CAP tradeoff	is a second of the second of t
b.	Bandwidth a	
	Authentication	
		nsistency issues
O d.	Database co	isistericy issues
Question 2		
Complete		
Mark 0.00 o	ut of 1.00	
In paym	nent systems, i	dempotent POSTs prevent:
Oa	Double charg	
	Network dela	ay .
	Overwrites	
○ d.	Session expi	ry
Question 3		
Complete		
Mark 1.00 o	ut of 1 00	
a. 1.00 0		
Which f	ailure scenario	o motivates using a circuit breaker?
a.	Downstream	timeout propagation
	Duplicate red	
○ b.		
○ c.	Cache misses	
○ d.	High CPU us	age

Design: Attempt review	http://10.11.52.100/mod/quiz/review.php?attempt=26067
Question 4	
Complete	
Mark 1.00 out of 1.00	
Google Spanner is classified as:	
a. CP/AP	
○ b. CA	
○ d. PA/EL	
Question 5	
Complete	
Mark 1.00 out of 1.00	
Which system is most likely AP under CAP?	
a. HBase	
Ob. Spanner	
c. DynamoDB	
d. Mongo (in strong consistency mode)	
Question 6	
Complete	
Mark 1.00 out of 1.00	
DynamoDB is classified as:	
a. AP	
○ b. PC	
○ c. CA	
O d. CP	
Question 7	
Complete	
Mark 1.00 out of 1.00	

a. SSL handshake b. ETag, Last-Modified oc. DNS lookup Od. CDN hashing

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Question 8	
Complete	
Mark 1.00 out of 1.00	
DACELC automode CAD by adding which tradeoff when no neutition arists?	
PACELC extends CAP by adding which tradeoff when no partition exists?	
a. Latency vs Consistency	
b. Partition vs Availability	
c. Fault tolerance vs Throughput	
d. Durability vs Performance	
d. Durability vs renormance	
Question 9	
Complete	
Mark 1.00 out of 1.00	
Circuit breakers primarily prevent:	
a. Network congestion	
b. Cascading failures	
c. Resource starvation	
○ d. Deadlocks	
40	
Question 10	
Complete	
Complete	
Complete	
Complete Mark 1.00 out of 1.00	
Complete Mark 1.00 out of 1.00	
Complete Mark 1.00 out of 1.00 Why does Offset pagination degrade for large datasets?	
Complete Mark 1.00 out of 1.00 Why does Offset pagination degrade for large datasets? a. CPU limits	
Complete Mark 1.00 out of 1.00 Why does Offset pagination degrade for large datasets? a. CPU limits b. Full table scan with skipped rows	
Complete Mark 1.00 out of 1.00 Why does Offset pagination degrade for large datasets? a. CPU limits b. Full table scan with skipped rows c. Cursor invalidation	
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Complete Mark 1.00 out of 1.00 Why does Offset pagination degrade for large datasets? a. CPU limits b. Full table scan with skipped rows c. Cursor invalidation d. Index corruption	
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Question '	12	
Complete		
Mark 1.00	out of 1.00	
Which	issue is most likely avoided by cursor pagination?	
○ a.	Slow writes	
O b.	Deadlocks	
c.	Duplicate/missing rows due to inserts/deletes	
	Phantom reads	
Question '	13	
Complete		
Mark 1.00	out of 1.00	
	IP Hash Random	
Complete	· *	
Mark 1.00	out of 1.00	
Which	of the following is a direct drawback of Token Bucket under high sustained	load?
	NASSES SEE SEE SEE SEE SEE SEE SEE SEE SE	
○ a.	Memory overhead due to token storage	
	Over-acceptance of requests	
O b.		
b.c.	Over-acceptance of requests	
b. c. d.	Over-acceptance of requests Unfairness between clients Token starvation leading to request throttling	
b.c.d.	Over-acceptance of requests Unfairness between clients Token starvation leading to request throttling	

a. 20 requests pass, 30 delayed/rejected O b. All rejected

o. All requests pass

Od. 25 requests pass, 25 delayed

System_	Design:	Attempt	review

Question 16	
Complete	
Mark 1.00 out of 1.00	
Mulk 150 Out Of 150	
Which status code is returned if cached content is still valid?	
which status code is returned in cached content is still valid:	
One FOO Coming Haravallahla	
a. 503 Service Unavailable	
○ b. 200 OK	
c. 304 Not Modified	
○ d. 202 Accepted	
4-	
Question 17	
Complete	
Mark 1.00 out of 1.00	
If consistency is preferred over latency in normal conditions, the system follows:	
a. PA/EL	
○ b. CP	
● c. PC/EC	
○ d. AP/EC	
Question 18	
Question 18 Complete	
Complete	
Complete Mark 1.00 out of 1.00	
Complete	
Complete Mark 1.00 out of 1.00	
Complete Mark 1.00 out of 1.00	
Complete Mark 1.00 out of 1.00 Why is POST usually non-idempotent? a. Stateless nature of HTTP	
Complete Mark 1.00 out of 1.00 Why is POST usually non-idempotent? a. Stateless nature of HTTP b. Caching conflicts	
Complete Mark 1.00 out of 1.00 Why is POST usually non-idempotent? a. Stateless nature of HTTP b. Caching conflicts c. Authentication required	
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System	Design:	Attempt	review
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Question 20
Complete
Mark 1.00 out of 1.00
At which OSI layer does an Application Load Balancer operate?
○ a. Layer 2
○ b. Layer 3
○ c. Layer 4
● d. Layer 7
Question 21
Complete
Mark 1.00 out of 1.00
A service hits a downstream dependency with 95% timeouts. Which resilience pattern helps first?
a. Load balancing
b. Circuit breaker
○ c. Edge caching
○ d. PACELC
Question 22
Complete
Complete Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Mark 0.00 out of 1.00 Which is not a common load balancer feature?
Mark 0.00 out of 1.00 Which is not a common load balancer feature? a. Health checks
Which is not a common load balancer feature? a. Health checks b. Circuit breaking
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination
Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination Question 23 Complete
Mark 0.00 out of 1.00 Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination Question 23 Complete Mark 1.00 out of 1.00
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Mark 0.00 out of 1.00 Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination Question 23 Complete Mark 1.00 out of 1.00
Mark 0.00 out of 1.00 Which is not a common load balancer feature? a. Health checks b. Circuit breaking c. Caching d. SSL termination Question 23 Complete Mark 1.00 out of 1.00 Which theorem better represents real-world distributed DBs?
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esign: A	ttempt review	http://10.11.52.100/mod/quiz/review.php?attempt=26067
Question 2	24	
Complete		
Mark 1.00 d	out of 1.00	
How do	pes an Idempotency-Key prevent duplicate booking?	
a.	Server checks key before creating resource	
O b.	Client retries endlessly	
○ c.	Server ignores POST body	
○ d.	Cache invalidation	
Question 2	25	
Complete		
Mark 1.00 d	out of 1.00	
○ c.	Supports traffic bursts up to bucket capacity Consumes fewer resources Handles only uniform traffic	
Question 2	26	
Complete		
Mark 1.00 d	out of 1.00	
When t	he circuit breaker is in half-open state, it:	
○ a.	Closes permanently	
O b.	Allows all requests	
○ c.	Rejects all requests	
d.	Allows limited test requests	
Question 2	27	
Mark 1.00 d	out of 1.00	
ividik I.UU (out of 1.00	

o. Durability and Partition tolerance d. Consistency and Availability

 a. Partition tolerance and Latency Ob. Consistency and Latency

In a network partition, a system cannot provide both:

System_Design: Attempt review
