Started on	Sunday, 27 October 2024, 7:47 PM
State	Finished
Completed on	Sunday, 27 October 2024, 7:50 PM
Time taken	3 mins 25 secs
Marks	10.00/10.00
Grade	**5.00** out of 5.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

What kind of databases are key-value stores like HBase?

- ○ a. Databases with predefined normalization rules
- ◉ b. Databases that support timestamp-based collision detection ✓
- ○ c. Relational databases with strict schemas
- ○ d. Document-centric databases

The correct answer is: Databases that support timestamp-based collision detection

Question **2**

Correct

Mark 1.00 out of 1.00

Which protocol is used for synchronous communication between web services in SOA?

- ○ a. REST
- ○ b. Asynchronous messaging
- ◉ c. SOAP ✓
- ○ d. FTP

The correct answer is: SOAP

Question **3**

Correct

Mark 1.00 out of 1.00

What kind of data models were introduced to replace relational models in the cloud?

- ○ a.   SQL-based transactional models
- ◉ b.   Key-value and document-centric models ✔
- ○ c.   Flat-file storage models
- ○ d.   Relational models with enhanced indexing

The correct answer is: Key-value and document-centric models

Question **4**

Correct

Mark 1.00 out of 1.00

What is the function of the registry in SOA?

- ○ a.   It monitors network traffic between services.
- ○ b.   It secures all communication between components.
- ◉ c.   It registers and discovers services. ✔
- ○ d.   It stores copies of consumer data.

The correct answer is: It registers and discovers services.

Question **5**

Correct

Mark 1.00 out of 1.00

What role does an ESB play in SOA?

- ○ a.   It coordinates business processes and workflows.
- ○ b.   It performs synchronous communication using the REST protocol.
- ◉ c.   It routes and transforms messages between service providers and consumers. ✔
- ○ d.   It registers services for service providers.

The correct answer is: It routes and transforms messages between service providers and consumers.

Question **6**

Correct

Mark 1.00 out of 1.00

What challenge does cloud performance monitoring address?

- ○ a. Difficulty predicting resource requirements ✓
- ○ b. Inability to assign consistent IP addresses
- ○ c. Static resource allocation
- ○ d. Virtual machine escape risks

The correct answer is: Difficulty predicting resource requirements

Question **7**

Correct

Mark 1.00 out of 1.00

Which of the following best describes cloud computing failures in enterprises?

- ○ a. Lack of sufficient infrastructure investment
- ○ b. Failing to define and link IT services with business outcomes ✓
- ○ c. Lack of interest in cloud strategies
- ○ d. Over-reliance on proprietary software

The correct answer is: Failing to define and link IT services with business outcomes

Question **8**

Correct

Mark 1.00 out of 1.00

How does the business layer of an application contribute to its architecture?

- ○ a. It handles business logic and workflows. ✓
- ○ b. It focuses only on UI rendering.
- ○ c. It provides data storage mechanisms.
- ○ d. It eliminates the need for service layers.

The correct answer is: It handles business logic and workflows.

Question **9**

Correct

Mark 1.00 out of 1.00

Which service model allows businesses to avoid managing hardware directly?

- ○ a.   Public cloud
- ○ b.   SaaS
- ◉ c.   IaaS ✔
- ○ d.   PaaS

The correct answer is: IaaS

Question **10**

Correct

Mark 1.00 out of 1.00

Why is infrastructure labor more efficient in large data centers?

- ◉ a.   Each administrator can manage thousands of servers. ✔
- ○ b.   Small data centers use the same number of administrators.
- ○ c.   More administrators are hired per server.
- ○ d.   Administrators handle fewer tasks per day.

The correct answer is: Each administrator can manage thousands of servers.

◄ Quiz 3 (CS11)

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Quiz 3 (CS13) ►