⌂ ＞ Courses ＞ Campus based Instruction ＞ Non-Specific Programs ＞ (hidden) ＞ (hidden) ＞ S2-23_MERGEDSA ＞ General
＞ Quiz 3 [5 Marks]

| Status | Finished |
| --- | --- |
| Started | Sunday, 21 April 2024, 10:51 AM |
| Completed | Sunday, 21 April 2024, 11:06 AM |
| Duration | 14 mins 49 secs |
| Marks | 20.00/25.00 |
| Grade | **4.00** out of 5.00 (**80**%) |

**Question 1**

Correct

Mark 1.00 out of 1.00

H03. Multi-Tenant Architecture, Micro Services, CAP Theorem (Focus: CAP Theorem) The CAP Theorem states that a distributed system cannot guarantee all three properties simultaneously. Which property is often sacrificed for high availability in geographically distributed systems?

- ○ a. Partition Tolerance
- ○ b. Scalability
- ○ c. Consistency
- ◉ d. Availability ✅

The correct answer is: Availability

**Question 2**

Correct

Mark 1.00 out of 1.00

H009 One of these is not a benefit of multi-tenancy.

- ◉ a. Being able to use a Monolith Application while others have to use micro-services. ✅
- ○ b. Shared Help desk support
- ○ c. Upgrade once, simultaneously, for all consumers
- ○ d. Single version of the software from a development and maintenance perspective

The correct answer is: Being able to use a Monolith Application while others have to use micro-services.

**Question 3**

Correct

Mark 1.00 out of 1.00

H09. Architecting for Mobile (Focus: Offline Functionality) Why might enabling offline functionality be beneficial for mobile applications?

- a. Eliminates the need for data security measures.
- b. Reduces battery consumption on mobile devices.
- c. Reduces development time and complexity.
- d. Improves user experience by allowing interaction with the application even when an internet connection is unavailable. ⊘

The correct answer is: Improves user experience by allowing interaction with the application even when an internet connection is unavailable.

**Question 4**

Incorrect

Mark 0.00 out of 1.00

H016 LAMP stack is

- a. PaaS
- b. SaaS
- c. A set of Operating Systems and Languages.
- d. IaaS ⊗

The correct answer is: PaaS

**Question 5**

Incorrect

Mark 0.00 out of 1.00

H30 Architecting for Cloud involves considerations such as

- a. Limited internet connectivity options.
- b. Hardware maintenance and software upgrades.
- c. Vendor lock-in and data portability. ⊗
- d. Resource elasticity and scalability.

The correct answer is: Resource elasticity and scalability.

**Question 6**

Correct

Mark 1.00 out of 1.00

SB281. What are the factors influencing Profitability?

- a. Release of competitive product
- b. All of the mentioned ⊘
- c. Eventual cost of product for development and marketing
- d. Concern for target markets

The correct answer is: All of the mentioned

**Question 7**

Correct

Mark 1.00 out of 1.00

H22 In the Layering Pattern, each layer interacts with the layer

- ○ a.   Neither above nor below it.
- ○ b.   Below it only.
- ⦿ c.   Above and below it. ⊘
- ○ d.   Above it only.

The correct answer is: Above and below it.

**Question 8**

Correct

Mark 1.00 out of 1.00

H020 AWS is

- ○ a.   Amazon Web Storage.
- ○ b.   Amazon World Services.
- ○ c.   Advanced Web Services.
- ⦿ d.   Amazon Web Services. ⊘

The correct answer is: Amazon Web Services.

**Question 9**

Incorrect

Mark 0.00 out of 1.00

HNA282. benefits of a planning process

- ○ a.   promotion of cooperation within the organization to achieve common goals
- ○ b.   a realistic self-assessment of the organization
- ⦿ c.   All the given options. ⊗
- ○ d.   the establishment of an organizational mission statement and a realistic self-assessment of the organization capability.
- ○ e.   the establishment of an organizational mission statement

The correct answer is: the establishment of an organizational mission statement and a realistic self-assessment of the organization capability.

**Question 10**

Correct

Mark 1.00 out of 1.00

D207. Which of the following is true for AMAZON EC2?

- ⦿ a.   A web service that provides resizable compute facility in cloud ⊘
- ○ b.   Amazon service for electronic computing
- ○ c.   A web service provide for e-commerce computing
- ○ d.   AMAZON service for e-Commerce application

The correct answer is: A web service that provides resizable compute facility in cloud

**Question 11**

Correct

Mark 1.00 out of 1.00

H015 The LAMP Stack consists of:

- ○ a.   Linear Array of Major Partitions.
- ○ b.   Linux, Android, MAC OS, PC DOS.
- ○ c.   Linux, Android, Microsoft windows, (PHP, Perl, or Python)
- ⊙ d.   Linux, Apache, MySQL, (PHP, Perl, or Python) ✓

The correct answer is: Linux, Apache, MySQL, (PHP, Perl, or Python)

**Question 12**

Correct

Mark 1.00 out of 1.00

H017 CAP Theorem does not discuss

- ○ a.   Consistency.
- ○ b.   Partition Tollerance.
- ⊙ c.   Security ✓
- ○ d.   Availability.

The correct answer is: Security

**Question 13**

Correct

Mark 1.00 out of 1.00

H06. Best Practices (Focus: Security) Which of the following is NOT considered a best practice for security in cloud-based architectures?

- ○ a.   Encrypting sensitive data at rest and in transit.
- ○ b.   Regularly patching and updating software components.
- ⊙ c.   Granting all users full administrative privileges. ✓
- ○ d.   Implementing strong access controls and user authentication.

The correct answer is: Granting all users full administrative privileges.

**Question 14**

Correct

Mark 1.00 out of 1.00

H28 Microservices architecture focuses on

- ○ a.   Minimizing network communication overhead.
- ○ b.   Tight integration between application components.
- ⊙ c.   Decomposing applications into small, independent services. ✓
- ○ d.   Building large, monolithic applications.

The correct answer is: Decomposing applications into small, independent services.

**Question 15**

Correct

Mark 1.00 out of 1.00

SB271. They are Broad Network Access, Rapid Elasticity, Measured services, On-demand Self-service and Resource Pooling. This answers the question:

   ○  a.   Name essential characteristics of Mobile COmputing

   ○  b.   Name some Service Models for cloud?

   ◉  c.   Name essential characteristics of a cloud? ⊘

   ○  d.   Name some Deployment Models for cloud?

The correct answer is: Name essential characteristics of a cloud?

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**Question 16**

Correct

Mark 1.00 out of 1.00

SB293. Which of the method is used for analyzing Architecture?

   ◉  a.   SAAM ⊘

   ○  b.   LAAM

   ○  c.   GAAM

   ○  d.   RAAM

The correct answer is: SAAM

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**Question 17**

Correct

Mark 1.00 out of 1.00

D210. Evaluation of architecture against system quality attributes, e.g. performance, security and modifiability, Suitability of design decisions is done using.

   ◉  a.   ATAM, Architecture Tradeoff Analysis Method ⊘

   ○  b.   ALMA, Architecture Level Modifiability Analysis.

   ○  c.   SAAM, Software Architecture Analysis Method

   ○  d.   CBAM, Cost Benefit Analysis Method

The correct answer is: ATAM, Architecture Tradeoff Analysis Method

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**Question 18**

Correct

Mark 1.00 out of 1.00

H34 Virtualization allows for

   ○  a.   Increasing the physical hardware resources of a single machine.

   ◉  b.   Running multiple operating systems and applications on a single machine. ⊘

   ○  c.   Directly accessing hardware resources by virtual machines.

   ○  d.   Eliminating the need for software installation.

The correct answer is: Running multiple operating systems and applications on a single machine.

Question **19**

Correct

Mark 1.00 out of 1.00

H36 Quality attributes in software architecture refer to

- ○ a.  Specific programming languages used in development.
- ○ b.  The development methodology chosen for the project.
- ⦿ c.  Non-functional characteristics such as performance and security. ⊘
- ○ d.  The number of components used in the architecture.

The correct answer is: Non-functional characteristics such as performance and security.

Question **20**

Incorrect

Mark 0.00 out of 1.00

H02. Quality Attribute Revisited (Focus: Scalability) When evaluating the scalability of an architecture, which of the following is NOT a relevant consideration?

- ○ a.  Ease of adding new processing units
- ⦿ b.  Cost-effectiveness of scaling resources ⊗
- ○ c.  User interface responsiveness
- ○ d.  Ability to handle increased data volume

The correct answer is: User interface responsiveness

Question **21**

Incorrect

Mark 0.00 out of 1.00

H33 Microkernel architecture

- ⦿ a.  Places all functionalities within a single kernel for efficiency. ⊗
- ○ b.  Is commonly used in embedded systems with limited resources.
- ○ c.  Distributes functionalities between a small kernel and user-space services.
- ○ d.  Requires complex communication mechanisms between components.

The correct answer is: Distributes functionalities between a small kernel and user-space services.

Question **22**

Correct

Mark 1.00 out of 1.00

HNA271. _____ as a Service is a cloud computing infrastructure that creates a development environment upon which applications may be built.

- ○ a.  All of the mentioned
- ○ b.  Infrastructure
- ⦿ c.  Platform ⊘
- ○ d.  Service

The correct answer is: Platform

**Question 23**

Correct

Mark 1.00 out of 1.00

H07. The Road Ahead (Focus: Continuous Improvement) Which approach best reflects the "The Road Ahead" philosophy in software architecture?

- ○ a. Defining a rigid, unchangeable architecture to ensure stability.
- ◉ b. Embracing continuous monitoring, evaluation, and adaptation of the architecture to meet evolving needs. ✓

The correct answer is: Embracing continuous monitoring, evaluation, and adaptation of the architecture to meet evolving needs.

**Question 24**

Correct

Mark 1.00 out of 1.00

H23 The Pipe and Filter pattern is best suited for

- ○ a. Building complex user interfaces.
- ○ b. Managing concurrent access to resources.
- ○ c. Implementing user authentication.
- ◉ d. Breaking down data processing tasks ✓

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**Question 25**

Correct

Mark 1.00 out of 1.00

H002 SMAC in the context of Cloud Architecture stand for

- ○ a. Second Mitochondria-Derived Activator
- ◉ b. None of the given options ✓
- ○ c. Smart, Mobile, Analytic, Cloud.
- ○ d. Smac MAC Address Changer

The correct answers are: Smart, Mobile, Analytic, Cloud., None of the given options

← **Previous**
Quiz 2 [5 Marks]

**Next** →
Assignment 1 [5 Marks]