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<b>Started on</b>	Wednesday, 13 January 2021, 6:00 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 13 January 2021, 6:19 PM
<b>Time taken</b>	19 mins 24 secs
<b>Marks</b>	8.60/10.00
<b>Grade</b>	<b>8.60</b> out of 10.00 (86%)

Question **1**

Partially correct

Mark 0.13 out of 0.40

What are containers useful for?

- ☒ keeping dependencies isolated from the application
- ☒ creating similar environments
- ☐ keeping computer clean
- ☒ quickly provisioning dependencies locally

Your answer is partially correct.

You have correctly selected 2.

The correct answers are:

creating similar environments,  
quickly provisioning dependencies locally,  
keeping computer clean

Question **2**

Correct

Mark 0.40 out of 0.40

When choosing cloud services, the price plan can be:

☒ Tiered☐ Transaction-based☒ Fixed☒ Dynamic

Your answer is correct.

The correct answers are:

Fixed,

Tiered,

Dynamic

Question **3**

Partially correct

Mark 0.27 out of 0.40

Which of the following represent possible type of consistency in cloud database models?

☐ tunable consistency☐ no consistency☒ strong consistency☒ eventual consistency

Your answer is partially correct.

You have correctly selected 2.

The correct answers are:

strong consistency,

eventual consistency,

tunable consistency

Question **4**

Correct

Mark 0.40 out of 0.40

OpenID Connect is a(n):

- ☐ Inter-service communication protocol
- ☐ SSO protocol
- ☒ Authentication protocol built on top of OAuth 2.0
- ☐ Authorization protocol built on top of OAuth 2.0



Your answer is correct.

The correct answer is:

Authentication protocol built on top of OAuth 2.0

Question **5**

Correct

Mark 0.40 out of 0.40

Which two options of the following could be considered identity providers (IdP)?

- ☐ Resource Servers
- ☒ Custom built OpenID Connect systems
- ☒ Social platforms such as Facebook and Google
- ☐ SaaS services



Your answer is correct.

The correct answers are:

Social platforms such as Facebook and Google,

Custom built OpenID Connect systems

Question **6**

Correct

Mark 0.40 out of 0.40

Which of the following is not an application security process/technique?

- ☐ encryption
- ☐ authorization
- ☒ runtime checking
- ☐ authentication
- ☐ input validation



Your answer is correct.

The correct answer is:  
runtime checking

Question **7**

Correct

Mark 0.40 out of 0.40

In a cloud environment, vertical scalability means that:

- ☐ it is compatible only with stateless applications
- ☒ it might be the only approach for certain components (RDBMS)
- ☐ it doesn't require restarting the service
- ☒ it doesn't require additional components



Your answer is correct.

The correct answers are:  
it doesn't require additional components,  
it might be the only approach for certain components (RDBMS)

Question **8**

Correct

Mark 0.40 out of 0.40

The role of the hypervisor is to:

- ☐ encrypt disk
- ☒ translate and limit instructions
- ☐ manage users
- ☒ create and manage guest machines



Your answer is correct.

The correct answers are:

create and manage guest machines,

translate and limit instructions

Question **9**

Correct

Mark 0.40 out of 0.40

The 12 Factor App is a(n)

- ☐ Authentication application
- ☒ Methodology for building scalable and maintainable software
- ☐ Framework for building microservices



Your answer is correct.

The correct answer is:

Methodology for building scalable and maintainable software

Question **10**

Partially correct

Mark 0.20 out of 0.40

Infrastructure as a Service is best used for:

- ☐ when ultra-high performance is a must
- ☐ when you don't want to be in control
- ☒ first migration stages (lift and shift)
- ☐ when you need vendor lock-in



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

first migration stages (lift and shift),

when ultra-high performance is a must

Question **11**

Correct

Mark 0.40 out of 0.40

When can a service be considered serverless?

- ☒ When you don't have to setup any infrastructure
- ☒ When you don't have to provision capacity
- ☒ When you pay only for what you use
- ☒ When the service can scale down to 0



Your answer is correct.

The correct answers are:

When you don't have to setup any infrastructure,

When you don't have to provision capacity,

When you pay only for what you use,

When the service can scale down to 0

Question **12**

Partially correct

Mark 0.20 out of 0.40

Which are the 2 main API styles?

- ☒ REST
- ☐ Graph
- ☒ Entity Oriented
- ☐ Procedure Oriented

✗

✓

Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Procedure Oriented,

Entity Oriented

Question **13**

Correct

Mark 0.40 out of 0.40

Why would you consider GraphQL instead of REST?

- ☒ Because we can specify which fields to fetch leading to lower data usage
- ☐ Because it is easier to cache
- ☒ Because it has built in introspection
- ☐ Because it scales better

✓

✓

Your answer is correct.

The correct answers are:

Because we can specify which fields to fetch leading to lower data usage,

Because it has built in introspection

Question **14**

Correct

Mark 0.40 out of 0.40

The CAP theorem referes to:

- ☐ Capacity, Availability, Performance
- ☒ Consistency, Availability, Partition Tolerance
- ☐ Credibility, Accessibility, Partition Tolerance
- ☐ Credibility, Accessibility, Performance



Your answer is correct.

The correct answer is:

Consistency, Availability, Partition Tolerance

Question **15**

Partially correct

Mark 0.20 out of 0.40

Which are two effective measures to improve infrastructure security?

- ☒ MFA for the users
- ☐ MFA for the development team
- ☐ Implement OAuth 2.0
- ☒ Reduce the attack surface as much as possible



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

MFA for the development team,

Reduce the attack surface as much as possible



Question **16**

Correct

Mark 0.40 out of 0.40

What makes a system highly available?

- ☒ data
- ☒ network
- ☒ hardware
- ☒ software



Your answer is correct.

The correct answers are:

hardware,  
software,  
data,  
network

Question **17**

Correct

Mark 0.40 out of 0.40

Which of the following are protocols used by the internet?

- ☒ IP
- ☒ BGP
- ☒ RIP
- ☒ OSPF



Your answer is correct.

The correct answers are:

IP,  
BGP,  
RIP,  
OSPF

Question **18**

Correct

Mark 0.40 out of 0.40

What is the shared responsibility model?

- ☐ A framework for finding out the optimal security approach
- ☐ A model describing the responsibility within a development team
- ☒ A model describing the responsibility of the cloud provider and the customer with regards to security
- ☐ A requirement for the ISO 27001 standard



Your answer is correct.

The correct answer is:

A model describing the responsibility of the cloud provider and the customer with regards to security

Question **19**

Incorrect

Mark 0.00 out of 0.40

Which of the following approaches has the ideal coupling?

- ☒ Separated services communicating through REST interfaces
- ☐ Separated services communicating through RPC
- ☐ Services deployed together as a monolith
- ☐ Separated services communicating through a message queue



Your answer is incorrect.

The correct answer is:

Separated services communicating through a message queue

Question **20**

Correct

Mark 0.40 out of 0.40

A resilient system is one that is:

- ☐ self managed
- ☒ predictable
- ☐ self contained
- ☒ adaptive
- ☒ self healing



Your answer is correct.

The correct answers are:

adaptive,  
self healing,  
predictable

Question **21**

Correct

Mark 0.40 out of 0.40

Why are serverless databases usually NoSQL?

- ☐ Due to licensing limitations of SQL databases
- ☐ Because data is non-relational in most cases anyway
- ☒ Because NoSQL databases usually scale better
- ☒ Because NoSQL databases are simpler (e.g. no ACID)



Your answer is correct.

The correct answers are:

Because NoSQL databases usually scale better, Because NoSQL databases are simpler (e.g. no ACID)

Question **22**

Correct

Mark 0.40 out of 0.40

In which case is a streaming service more suitable than a queue?

- ☐ When it's enough if the message is processed by at least one client
- ☐ When we don't want to store messages
- ☐ When we want to reduce the load on the clients
- ☒ When we might want to replay previous messages/events



Your answer is correct.

The correct answer is:

When we might want to replay previous messages/events

Question **23**

Correct

Mark 0.40 out of 0.40

Which is the correct order for disaster recovery strategies from cheapest to the most expensive?

- ☒ backup and restore, pilot light, warm standby, hot site
- ☐ warm standby, hot site, backup and restore, pilot light
- ☐ backup and restore, warm standby, hot site, pilot light
- ☐ warm standby, hot site, pilot light, backup and restore



Your answer is correct.

The correct answer is:

backup and restore, pilot light, warm standby, hot site

Question **24**

Correct

Mark 0.40 out of 0.40

A key-value database offers:

- ☐ ultra low but not consistent latency
- ☒ ultra low and consistent latency
- ☐ high but not consistent throughput
- ☒ high and consistent throughput

✓

✓

Your answer is correct.

The correct answers are:

ultra low and consistent latency,

high and consistent throughput

Question **25**

Correct

Mark 0.40 out of 0.40

Which are some common concerns when working with queues?

- ☒ The same message might be delivered multiple times
- ☐ The message is lost if there are no consumers
- ☐ The consumers might get overloaded
- ☒ Messages might be out of order

✓

✓

Your answer is correct.

The correct answers are:

Messages might be out of order,

The same message might be delivered multiple times

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