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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, 6:18 PM
<b>Time taken</b>	18 mins 31 secs
<b>Marks</b>	8.27/10.00
<b>Grade</b>	<b>8.27</b> out of 10.00 (83%)

Question **1**

Correct

Mark 0.40 out of 0.40

Which of the following is the availability formula used in cloud environments?

- ☐ availability=uptime/downtime
- ☒  $\text{availability} = \frac{\text{uptime}}{\text{downtime} + \text{uptime}}$  ✓
- ☐  $\text{availability} = \frac{\text{uptime}}{\text{uptime} + \text{downtime}}$
- ☐  $\text{availability} = \frac{\text{uptime}}{\text{downtime} + \text{uptime}}$

Your answer is correct.

The correct answer is:  
 $\text{availability} = \frac{\text{uptime}}{\text{downtime} + \text{uptime}}$

Question **2**

Correct

Mark 0.40 out of 0.40

Which of the following are protocols used by the internet?

- ☒ IP ✓
- ☒ OSPF ✓
- ☒ BGP ✓
- ☒ RIP ✓

Your answer is correct.

The correct answers are:  
IP,  
BGP,  
RIP,  
OSPF

Question **3**

Correct

Mark 0.40 out of 0.40

When choosing cloud services, the price plan can be:

☒ Tiered☒ Fixed☒ Dynamic☐ Transaction-based

Your answer is correct.

The correct answers are:

Fixed,

Tiered,

Dynamic

Question **4**

Correct

Mark 0.40 out of 0.40

Cloud network security can be enforced by:

☐ domain name servers☒ firewalls☒ network access control lists☐ gateways

Your answer is correct.

The correct answers are:

firewalls,

network access control lists

Question **5**

Correct

Mark 0.40 out of 0.40

Which are the main cloud deployment models?

Select one or more:

☒ Private



☒ Public



☒ Hybrid



☒ Community



Your answer is correct.

The correct answers are:

Public,

Private,

Community,

Hybrid

Question **6**

Incorrect

Mark 0.00 out of 0.40

Which are some of the concerns when adopting a serverless architecture?

☒ Your system might not be able to handle big workloads



☒ You might not have enough control



☐ It will likely be more expensive than IaaS

☐ Your system might overload other dependencies

Your answer is incorrect.

The correct answers are:

You might not have enough control,

Your system might overload other dependencies

## Question 7

Correct

Mark 0.40 out of 0.40

In a cloud environment horizontal scaling means that:

- ☒ it requires load balancers
- ☐ it is compatible with any application architecture
- ☐ it modifies existing VMs
- ☒ it can scale infinitely



Your answer is correct.

The correct answers are:

it can scale infinitely,

it requires load balancers

## Question 8

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 **9**

Correct

Mark 0.40 out of 0.40

Which are the 2 main API styles?

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



Your answer is correct.

The correct answers are:

Procedure Oriented,

Entity Oriented

Question **10**

Correct

Mark 0.40 out of 0.40

Which of the following represent HTTP safe methods?

- ☐ POST
- ☒ HEAD
- ☐ PATCH
- ☒ GET



Your answer is correct.

The correct answers are:

GET,

HEAD

## Question 11

Correct

Mark 0.40 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 correct.

The correct answers are:

MFA for the development team,

Reduce the attack surface as much as possible

## Question 12

Incorrect

Mark 0.00 out of 0.40

Monitoring of the virtual host is useful to ensure:

- ☐ if provider respects contracts (SLA) ✗
- ☒ knowing your current price to pay ✗
- ☒ knowing the size of the database ✗
- ☒ knowing when to scale (up/down, in/out) ✓

Your answer is incorrect.

The correct answers are:

if provider respects contracts (SLA),

knowing when to scale (up/down, in/out)

Question **13**

Correct

Mark 0.40 out of 0.40

Packet mirroring in cloud network can be useful for:

- ☐ boosting traffic performance
- ☒ anomaly detection
- ☒ security analysis
- ☒ bug testing



Your answer is correct.

The correct answers are:

security analysis,

bug testing,

anomaly detection

Question **14**

Correct

Mark 0.40 out of 0.40

In a cloud environment, vertical scalability means that:

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



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 **15**

Correct

Mark 0.40 out of 0.40

A resilient system is one that is:

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



Your answer is correct.

The correct answers are:

adaptive,  
self healing,  
predictable

Question **16**

Correct

Mark 0.40 out of 0.40

Which of the following represent types of load balancers?

- ☒ HTTP
- ☒ TCP/UDP
- ☒ DNS
- ☐ NAT



Your answer is correct.

The correct answers are:

HTTP,  
TCP/UDP,  
DNS



Question **17**

Correct

Mark 0.40 out of 0.40

Why is loose coupling beneficial?

- ☐ Usually makes the system more scalable
- ☐ Improves network performance
- ☐ We should prefer strong coupling instead
- ☒ Facilitates better maintainability and extensibility



Your answer is correct.

The correct answer is:

Facilitates better maintainability and extensibility

Question **18**

Correct

Mark 0.40 out of 0.40

Which of the following are HTTP idempotent methods?

- ☐ POST
- ☒ PUT
- ☒ DELETE
- ☒ HEAD
- ☒ GET



Your answer is correct.

The correct answers are:

GET,

HEAD,

DELETE,

PUT

Question **19**

Correct

Mark 0.40 out of 0.40

OAuth 2.0 is a(n):

- ☒ Authorization protocol
- ☐ Multi-factor authentication service
- ☐ Authentication protocol
- ☐ User management service



Your answer is correct.

The correct answer is:

Authorization protocol

Question **20**

Correct

Mark 0.40 out of 0.40

When can a service be considered serverless?

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



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 **21**

Incorrect

Mark 0.00 out of 0.40

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

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



Your answer is incorrect.

The correct answer is:

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

Question **22**

Partially correct

Mark 0.20 out of 0.40

Asymmetric encryption is suited for:

- ☐ High-performance compute
- ☐ Large payloads
- ☒ Small payloads
- ☐ Digital signatures (identity verification)



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Small payloads,

Digital signatures (identity verification)

Question **23**

Correct

Mark 0.40 out of 0.40

Which is true for a graph database model?

- ☒ nodes contain properties (key-value pairs)
- ☐ relationships can't contain properties
- ☒ contains nodes and relationships
- ☐ relationships are not directed



Your answer is correct.

The correct answers are:

contains nodes and relationships,

nodes contain properties (key-value pairs)

Question **24**

Partially correct

Mark 0.20 out of 0.40

Why are serverless databases usually NoSQL?

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



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

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

Question **25**

Correct

Mark 0.40 out of 0.40

Which is the optimal approach for the least privilege principle when admin rights are required?

- ☐ Create a dedicated admin user used only when needed
- ☐ Enable MFA
- ☐ Relax the security policies when needed
- ☒ Leverage features that enable just-in-time privileges



Your answer is correct.

The correct answer is:

Leverage features that enable just-in-time privileges

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