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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, 6:20 PM
<b>Time taken</b>	20 mins
<b>Marks</b>	6.00/10.00
<b>Grade</b>	<b>6.00</b> out of 10.00 ( <b>60%</b> )

Question **1**

Correct

Mark 0.40 out of 0.40

Among the techniques for achieving high availability are:

- ☒ multi availability zones
- ☒ multi region
- ☐ real time operating system
- ☒ floating/elastic IP

Your answer is correct.

The correct answers are:

multi region,  
multi availability zones,  
floating/elastic IP

Question **2**

Incorrect

Mark 0.00 out of 0.40

Monitoring of the virtual host is useful to ensure:

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



Your answer is incorrect.

The correct answers are:

if provider respects contracts (SLA),

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

Question **3**

Correct

Mark 0.40 out of 0.40

Which three options of the following are valid OAuth 2.0 flows?

- ☒ Owner Claim
- ☒ Pass-through Hash
- ☒ Authorization Code with PKCE
- ☒ Authorization Code
- ☒ Resource Owner Password Credentials



Your answer is correct.

The correct answers are:

Authorization Code,

Resource Owner Password Credentials, Authorization Code with PKCE

## Question 4

Correct

Mark 0.40 out of 0.40

Which are the 2 main API styles?

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



Your answer is correct.

The correct answers are:

Procedure Oriented,

Entity Oriented

## Question 5

Correct

Mark 0.40 out of 0.40

Which of the following represent types of load balancers?

- ☒ DNS
- ☒ HTTP
- ☐ NAT
- ☒ TCP/UDP



Your answer is correct.

The correct answers are:

HTTP,

TCP/UDP,

DNS

Question **6**

Not answered

Marked out of 0.40

In a cloud environment horizontal scaling means that:

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

Your answer is incorrect.

The correct answers are:

it can scale infinitely,

it requires load balancers

Question **7**

Correct

Mark 0.40 out of 0.40

Why is loose coupling beneficial?

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



Your answer is correct.

The correct answer is:

Facilitates better maintainability and extensibility

Question **8**

Correct

Mark 0.40 out of 0.40

What are CDNs good for?

- ☐ reduce resources
- ☒ optimize costs
- ☒ improve security
- ☒ improve load times



Your answer is correct.

The correct answers are:

improve load times,

optimize costs,

improve security

Question **9**

Partially correct

Mark 0.10 out of 0.40

What makes a system highly available?

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



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

hardware,

software,

data,

network

Question **10**

Incorrect

Mark 0.00 out of 0.40

The relationship between TLS and SSL is:

- ☐ TLS handles communication while SSL handles identity verification
- ☐ TLS is the successor of SSL
- ☒ TLS is built on top of SSL
- ☐ They are not related



Your answer is incorrect.

The correct answer is:

TLS is the successor of SSL

Question **11**

Correct

Mark 0.40 out of 0.40

FaaS stands for:

- ☒ Functions as a service
- ☐ Frontend as a service
- ☐ Functionality as a service



Your answer is correct.

The correct answer is:

Functions as a service

Question **12**

Correct

Mark 0.40 out of 0.40

Which of the following represent HTTP safe methods?

☒ HEAD☐ PATCH☒ GET☐ POST

Your answer is correct.

The correct answers are:

GET,

HEAD

Question **13**

Correct

Mark 0.40 out of 0.40

Which of the following are protocols used by the internet?

☒ BGP☒ IP☒ OSPF☒ RIP

Your answer is correct.

The correct answers are:

IP,

BGP,

RIP,

OSPF

Question **14**

Correct

Mark 0.40 out of 0.40

What are containers useful for?

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



Your answer is correct.

The correct answers are:

creating similar environments,

quickly provisioning dependencies locally,

keeping computer clean

Question **15**

Not answered

Marked out of 0.40

How are messages retrieved from queues in comparison to pub/sub systems?

- ☐ The clients pull messages from both types of services
- ☐ The client has the pull the messages from queues while pub/sub pushes the messages to the client
- ☐ The client has the pull the messages from pub/sub while queues push the messages to the client
- ☐ Both types of services push the message to the clients

Your answer is incorrect.

The correct answer is:

The client has the pull the messages from queues while pub/sub pushes the messages to the client



Question **16**

Correct

Mark 0.40 out of 0.40

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

- ☐ availability= $\text{uptime}/\text{downtime} + \text{uptime}$
- ☐ availability= $\text{uptime}/\text{uptime} + \text{downtime}$
- ☒ availability= $\text{uptime}/(\text{downtime} + \text{uptime})$
- ☐ availability= $\text{uptime}/\text{downtime}$



Your answer is correct.

The correct answer is:

availability= $\text{uptime}/(\text{downtime} + \text{uptime})$

Question **17**

Incorrect

Mark 0.00 out of 0.40

The 12 Factor App is a(n)

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



Your answer is incorrect.

The correct answer is:

Methodology for building scalable and maintainable software

Question **18**

Correct

Mark 0.40 out of 0.40

The CAP theorem referes to:

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



Your answer is correct.

The correct answer is:

Consistency, Availability, Partition Tolerance

Question **19**

Partially correct

Mark 0.30 out of 0.40

Some of the load balancers features are:

- ☒ caching
- ☒ routing based on path
- ☐ health checks
- ☒ port mapping



Your answer is partially correct.

You have correctly selected 3.

The correct answers are:

routing based on path,

health checks,

port mapping,

caching

Question **20**

Partially correct

Mark 0.20 out of 0.40

Why would be concerned with the API design in the context of the cloud?

- ☒ Because SaaS products, which are growing in popularity, usually offer APIs
- ☐ Because the microservices architecture is adopted more frequently
- ☐ Because cloud systems work best with REST APIs



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

Because SaaS products, which are growing in popularity, usually offer APIs,

Because the microservices architecture is adopted more frequently

Question **21**

Correct

Mark 0.40 out of 0.40

Why are serverless databases usually NoSQL?

- ☐ Because data is non-relational in most cases anyway
- ☒ Because NoSQL databases usually scale better
- ☐ Due to licensing limitations of SQL databases
- ☒ 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**

Not answered

Marked out of 0.40

From the kubernetes terminology, we can say that a pod:

- ☐ runs one or more containers
- ☐ is managed by the operating system
- ☐ is the smallest deployment unit
- ☐ can span multiple nodes

Your answer is incorrect.

The correct answers are:

is the smallest deployment unit,

runs one or more containers

Question **23**

Incorrect

Mark 0.00 out of 0.40

Which is the correct order complexity wise in decreasing order for NoSQL database models?

- ☐ document, columnar, key-value, graph
- ☐ graph, columnar, document, key-value
- ☐ graph, document, columnar, key-value
- ☒ key-value, document, columnar, graph



Your answer is incorrect.

The correct answer is:

graph, columnar, document, key-value

Question **24**

Partially correct

Mark 0.20 out of 0.40

Which is true for a graph database model?

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



Your answer is partially correct.

You have correctly selected 1.

The correct answers are:

contains nodes and relationships,

nodes contain properties (key-value pairs)

Question **25**

Incorrect

Mark 0.00 out of 0.40

A key-value database offers:

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



Your answer is incorrect.

The correct answers are:

ultra low and consistent latency,

high and consistent throughput

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