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Grade	100 out of 100

Question 1

Correct

Mark 4 out of 4

What is the purpose of an index in a database?

- ☐ a. To store backup copies
- ☐ b. To allow multiple users to access data simultaneously
- ☐ c. To ensure data integrity
- ☒ d. To speed up data retrieval operations ✓

Question 2

Correct

Mark 4 out of 4

Which type of chart is best for showing the relationship between two variables?

- ☐ a. Pie chart
- ☐ b. Line graph
- ☒ c. Scatter plot ✓
- ☐ d. Histogram

Question 3

Correct

Mark 4 out of 4

What safeguard helps maintain data integrity in a database?

- ☐ a. Backup systems
- ☐ b. User access controls
- ☐ c. Data redundancies
- ☒ d. Use of foreign keys ✓

Question 4

Correct

Mark 4 out of 4

What is the main advantage of interactive data visualization tools?

- ☐ a. They create complex coding requirements
- ☐ b. They allow for static presentations
- ☐ c. They are easier to print
- ☒ d. They make it easier to analyze data in real time ✓

Question 5

Correct

Mark 4 out of 4

Which of the following is an example of a synchronous communication platform?

- ☐ a. Social Media
- ☒ b. Video Conferencing ✓
- ☐ c. Blogs
- ☐ d. Email

Question 6

Correct

Mark 4 out of 4

What does KPI stand for in the context of business analytics?

- ☐ a. Key Planning Information
- ☐ b. Knowledge-based Performance Indicator
- ☒ c. Key Performance Indicator ✓
- ☐ d. Knowledge Performance Index

Question 7

Correct

Mark 4 out of 4

Which of the following is a critical feature for effective team collaboration?

- ☐ a. Unscheduled meetings
- ☐ b. Lack of communication
- ☐ c. Minimal feedback
- ☒ d. Clear role definitions ✓

Question 8

Correct

Mark 4 out of 4

What is a disadvantage of a flat file database?

- ☐ a. It is simple to use
- ☒ b. It can lead to data redundancy ✓
- ☐ c. It is suitable for small data sets
- ☐ d. It requires complex queries

Question 9

Correct

Mark 4 out of 4

What does a foreign key do in a relational database?

- ☐ a. It stores data about user access
- ☐ b. It creates duplicates of existing data
- ☐ c. It indexes a table for faster search
- ☒ d. It identifies a primary key in another table ✓

Question 10

Correct

Mark 4 out of 4

Which service provides virtualized computing resources over the Internet?

- ☐ a. DaaS
- ☒ b. IaaS ✓
- ☐ c. PaaS
- ☐ d. SaaS

Question 11

Correct

Mark 4 out of 4

What is a common technique used in data cleaning?

- ☐ a. Data visualization
- ☐ b. Data mining
- ☐ c. Data integration
- ☒ d. Normalization ✓

Question 12

Correct

Mark 4 out of 4

What does "SaaS" stand for?

- ☐ a. Storage as a Service
- ☒ b. Software as a Service ✓
- ☐ c. Server as a Service
- ☐ d. Security as a Service

Question 13

Correct

Mark 4 out of 4

Which term refers to the various forms of communication a company uses to relay messages?

- ☐ a. Communication Tools
- ☐ b. Communication Grids
- ☒ c. Communication Channels ✓
- ☐ d. Communication Scripts

Question 14

Correct

Mark 4 out of 4

Which term refers to the process of transferring data and applications to the cloud?

- ☐ a. Cloud storage
- ☒ b. Cloud migration ✓
- ☐ c. Cloud synchronization
- ☐ d. Cloud backup

Question 15

Correct

Mark 4 out of 4

Which of the following is an advantage of a private cloud?

- ☐ a. Reduced management complexity
- ☐ b. Greater cost efficiency than public clouds
- ☒ c. Increased security and control ✓
- ☐ d. Unlimited access for all users

Question 16

Correct

Mark 4 out of 4

What is "multi-tenancy" in cloud computing?

- ☐ a. Separate cloud services for each department
- ☐ b. Multiple software installations on a single server
- ☒ c. A single instance serving multiple users ✓
- ☐ d. The use of multiple cloud providers

Question 17

Correct

Mark 4 out of 4

What is the main advantage of using virtualization in server consolidation?

- ☒ a. Improved resource allocation and efficiency ✓
- ☐ b. Reduced hardware utilization
- ☐ c. Better performance for legacy applications
- ☐ d. Increased energy consumption

Question 18

Correct

Mark 4 out of 4

How can organizations ensure effective communication among remote teams?

- ☐ a. By limiting communication tools
- ☒ b. By using a variety of communication platforms ✓
- ☐ c. By relying only on emails
- ☐ d. By avoiding virtual meetings

Question 19

Correct

Mark 4 out of 4

Which communication platform allows for the broadcast of messages to a large audience?

- ☐ a. One-on-One Meetings
- ☐ b. Forum Discussions
- ☒ c. Webinars ✓
- ☐ d. Direct Messaging

Question 20

Correct

Mark 4 out of 4

What is the primary purpose of cloud storage?

- ☒ a. To provide scalable, remote storage solutions ✓
- ☐ b. To enhance software performance
- ☐ c. To improve hardware speeds
- ☐ d. To store data locally

Question 21

Correct

Mark 4 out of 4

What does the acronym ACID stand for in database management?

- ☐ a. Auto-update, Consistency, Integration, Distribution
- ☒ b. Atomicity, Consistency, Isolation, Durability ✓
- ☐ c. Accessibility, Capacity, Integrity, Durability
- ☐ d. Association, Consistency, Isolation, Dependency

Question 22

Correct

Mark 4 out of 4

Which of the following describes a hybrid cloud?

- ☐ a. A fully managed dedicated server
- ☐ b. A cloud model that is only used for public services
- ☐ c. A cloud that operates without any physical infrastructure
- ☒ d. A cloud model that combines both private and public clouds ✓

Question 23

Correct

Mark 4 out of 4

In an E-R diagram, a diamond shape represents what?

- ☒ a. Relationship ✓
- ☐ b. Entity
- ☐ c. Attribute
- ☐ d. Key

Question 24

Correct

Mark 4 out of 4

In a relational database, what happens if a primary key is defined on a table?

- ☐ a. It can have duplicate values
- ☐ b. It can be NULL
- ☒ c. It must contain unique values ✓
- ☐ d. It does not enforce any rules

Question 25

Correct

Mark 4 out of 4

What is the primary function of a virtual machine (VM)?

- ☐ a. To reduce physical server count
- ☒ b. To run a separate operating system on the same hardware ✓
- ☐ c. To enhance physical server performance
- ☐ d. To provide network services