

Question 1

Complete

Mark 1.00 out of 1.00

Flag question

The primary opportunity identified by some enterprises for application of big data was

Select one:

- ☒ a. Increasing operational efficiency
- ☐ b. Better customer service
- ☐ c. Enhanced customer experience
- ☐ d. Faster go to market

Question 2

Complete

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Flag question

The cheapest type of data processing from source system to destination system is

Select one:

- ☐ a. a slow source with fast processing
- ☒ b. a slow source with slow processing
- ☐ c. a fast source with fast processing
- ☐ d. a fast source with slow processing

Question 3

Complete

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Flag question

Which activities in big data lifecycle management should be performed throughout the lifecycle?

Select one:

- ☐ a. Assuring and describing
- ☐ b. Analyzing and preserving
- ☐ c. Planning
- ☒ d. Describing and discovering

Question 4

Complete

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Flag question

To unlock value on high velocity data where alerting is required (e.g. stock levels are low), which statement is most true?

Select one:

- ☐ a. You are retaining large quantities of data
- ☒ b. You are processing data in real-time
- ☐ c. You are processing data in batches

Question 5

Complete

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Which sentence is most true?

Select one:

- ☐ a. Data visualisation with big data is a leading indicator of 'bigness'
- ☒ b. Big data Value (V) is a consequence of leveraging big data
- ☐ c. High velocity data always results in high volume data
- ☐ d. Unstructured data is present in every big data usecase

Question 6

Complete

Mark 0.50 out of 1.00

Flag question

Affordable compute and storage were identified as enablers for big data value, select two more

Select one or more:

- ☒ a. Social media as a data source
- ☐ b. Recommendation engines
- ☒ c. Pay-as-you-go models
- ☐ d. Connected devices and digitization

Question 7

Complete

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Which situation encompasses the most of the big data characteristics (the four Vs)

Select one:

- ☐ a. Recommendation engine for online retailer leveraging external sources
- ☐ b. Data from the LHC
- ☒ c. Logistics route planning and costing on a monthly basis
- ☐ d. A UCI Machine Learning dataset downloaded for analysis

Question 8

Complete

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Variety is a measure of the

Select one:

- ☒ a. different types of file formats and data structures/models in the data
- ☐ b. the number of data sources ingested
- ☐ c. cardinality of the features under consideration

Question 9

Complete

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Matt Turk believes that big data is currently in

Select one:

- ☒ a. an early adoption phase
- ☐ b. later adoption phase
- ☐ c. an early hype phase

Question 10

Complete

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High volumes of data in your use case may mean that

Select one:

- ☐ a. processing and storage costs increase and system performance degrades
- ☒ b. processing and storage costs remain the same with proper planning and infrastructure
- ☐ c. storage costs increase, but processing costs and system performance decline

Question 11

Complete

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MLOps is

Select one:

- ☒ a. a process that applies DevOps principles to ML systems
- ☐ b. a process that delivers code quickly and safely
- ☐ c. an operational team that manages machine learning models

Question 12

Complete

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How experienced in big data is an organisation that is mostly focused on diagnostic and descriptive analytics

Select one:

- ☒ 1. Inexperienced
- ☐ 2. Slightly experienced
- ☐ 3. Very experienced

Question **1**

Complete

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Which of these statements are true?

Select one or more:

- ☒ a. SQL is a declarative language
- ☐ b. Cartesian joins are commonly used in big data
- ☐ c. A aggregation function results in a single value per grouping of rows
- ☐ d. SQL is limited to traditional relational database systems

Question **2**

Complete

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Which memory accesses are fastest?

Select one:

- ☒ a. main memory/RAM
- ☐ b. hard disk drives
- ☐ c. tape drives
- ☐ d. solid state disks

Question **3**

Complete

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If you run a virtual machine on your laptop, what type is it?

Select one:

- ☒ a. native hypervisor running on bare-metal
- ☐ b. hypervisor running on an operating system
- ☐ c. guest OS running on bare-metal

Question 4

Complete

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Packaging your model in Docker allows it to run in:

Select one or more:

- ☒ a. Openshift
- ☐ b. Docker Swarm
- ☒ c. Google AI-Platform
- ☐ d. K8S

Question 5

Complete

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If your access requirements for data are once every few years, you would use:

Select one:

- ☒ a. offline storage
- ☐ b. online storage
- ☐ c. nearline storage

Question 6

Complete

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Which statement is false?

Select one:

- ☐ a. OLTP RDMSs more tables than OLAP
- ☐ b. OLTP RDMSs typically normalise their data
- ☐ c. Data warehouses offer a consolidated data view of a business
- ☒ d. OLAP RDMSs are best suited to short running queries

Question 7

Complete

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Complete this sentence with the most valid answer: "A distributed RDMS . . ."

Select one:

- ☒ a. always partitions data
- ☐ b. may partition and replicate data
- ☐ c. always replicates data
- ☐ d. will replicate data whenever it is partitioned

Question 8

Complete

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In the client server model of Postgres, which statement is true?

Select one:

- ☐ a. clients connect directly to one another
- ☐ b. servers offload work to clients
- ☐ c. clients store some replicas of the server for ease of access
- ☒ d. a server manages client connections and data access

Question 9

Complete

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Which statement is not true of most key-value stores?

Select one:

- ☐ a. Allow high-speed read and write access patterns
- ☐ b. Values are typically not searchable
- ☐ c. Well suited to model relationships between different key-value pairs
- ☒ d. Ideal for unstructured data storage

Question **10**

Complete

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Which statements are not true of document stores?

Select one or more:

- ☐ a. Column families may form super column families
- ☒ b. Relationships in data is typically embedded in each document
- ☐ c. All writes use a consistent schema
- ☒ d. Ideal for storing semi-structured data

Question **11**

Complete

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Which NoSQL database is ideally suited for storing network relationships?

Select one:

- ☐ a. BigTable
- ☒ b. Neo4j
- ☐ c. Redis
- ☐ d. MongoDB

Question **12**

Complete

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Which NoSQL database is ideally suited for high volume data with fast access?

Select one:

- ☐ a. BigTable
- ☐ b. Neo4j
- ☒ c. MongoDB
- ☐ d. Redis

Question **13**

Complete

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Which statement about NoSQL technologies is most false?

Select one:

- ☒ a. NoSQL technologies natively support partitioning and replication
- ☐ b. They support distributed workloads
- ☐ c. NoSQL technology query tools don't necessarily have a SQL language capability
- ☐ d. To increase capacity you simply increase the capacity of individual