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# Latest Version: 6.0

## Question: 1

What is the primary advantage of using Apache Spark for distributed processing compared to traditional single-node processing?

- A. Improved data visualization capabilities
- B. Increased storage capacity
- C. Faster processing of large datasets
- D. Enhanced data security

**Answer: C**

## Question: 2

What is the role of a Spark driver in a distributed processing job?

- A. Manages communication between executors and workers
- B. Coordinates tasks across the cluster
- C. Stores and processes intermediate data
- D. Performs computations on individual data partitions

**Answer: B**

## Question: 3

How does Spark achieve fault tolerance during distributed processing?

- A. By replicating data across all nodes in the cluster
- B. By implementing automatic checkpointing of intermediate results
- C. By restarting failed tasks on different nodes
- D. Spark employs a combination of data lineage tracking, checkpointing, and task re-execution to ensure job completion even in the event of node failures.

**Answer: D**

## Question: 4

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What is the difference between RDDs and DataFrames in Spark?

- A. RDDs are mutable, while DataFrames are immutable
- B. RDDs are lower-level abstractions, while DataFrames offer higher-level functionalities
- C. RDDs represent distributed datasets, while DataFrames work with structured data
- D. Both B and C

**Answer: D**

### Question: 5

Which Spark component is responsible for managing the execution of tasks on worker nodes?

- A. Spark Driver
- B. Spark Executor
- C. spark SQL
- D. Spark Core

**Answer: B**

### Question: 6

What is the purpose of partitioning data in Spark?

- A. To improve data compression efficiency
- B. To enable parallel processing across multiple nodes
- C. To enforce data access control
- D. To optimize data visualization

**Answer: B**

### Question: 7

How does Spark handle data shuffling during distributed processing?

- A. By broadcasting all data to each executor
- B. By transferring only required data between executors
- C. By storing all data on a single node
- D. Spark doesn't perform data shuffling

**Answer: B**

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## Question: 8

You are working with a large, skewed dataset in Spark. How would you optimize processing to mitigate the impact of skew and improve performance?

- A. Use salting on the skewed column during data partitioning.
- B. Broadcast the skewed data to all executors.
- C. Implement custom partitioners to evenly distribute skewed values.
- D. Salting randomizes data distribution within partitions, custom partitioners ensure balanced distribution of skewed values, and broadcasting avoids redundant data transfers on shuffled stages.

**Answer: D**

## Question: 9

How can you leverage Spark Streaming for real-time data processing and analytics?

- A. By defining a streaming DataFrame with a window function.
- B. By utilizing Structured Streaming with Kafka as the source and sink.
- C. By implementing custom logic for data ingestion, transformation, and output.
- D. Both A and B.

**Answer: D**

## Question: 10

Explain the concept of lineage tracking in Spark and its benefits for fault tolerance and debugging.

- A. Lineage tracks the dependencies between data transformations, enabling efficient re-execution on failures.
- B. It creates a log of all operations performed on data, aiding in debugging issues.
- C. Lineage allows for caching intermediate results, improving performance.
- D. Both A and B.

**Answer: D**

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