

# SDS Exam Overviews - Valid SDS Test Book

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## SDS EXAM – NBRC LATEST 2025-2026 REVISED UPDATE EXAM QUESTIONS AND ANSWERS| COMPREHENSIVE EXAM

Describe the anatomic position an esophageal pH catheter should be placed - Answer-Cather tip should be 5cm above the upper border of the lower esophageal sphincter

Another name for the disinfecting agent Cidex?

How long for this agent to disinfect?

How long for this agent to sterilize - Answer-Alkaline gluteraldehyde

10 min

10 hours

Another name for the disinfecting agent Sonacide?

How long for this agent to disinfect?

How long for this agent to sterilize? - Answer-Acid gluteraldehyde

10 min

1 hour

An ECG tracing shows a beat with an irregular rhythm, QRS >0.12sec, and a varying rate. The sleep tech would classify this as - Answer-PVC

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## DASCA Senior Data Scientist Sample Questions (Q79-Q84):

### NEW QUESTION # 79

Bernoulli random variable is a type of:

- A. Discrete random variable
- B. Sometimes Discrete or sometimes Continuous random variable
- C. Both A and B
- D. Continuous random variable

**Answer: A**

Explanation:

A Bernoulli random variable is the simplest form of discrete random variable.

It can take only two values:

1 with probability  $p$  (success).

0 with probability  $(1 - p)$  (failure).

Since the outcomes are finite (binary), it is a discrete random variable.

Option B (Continuous): Incorrect, as continuous variables take values from an interval (e.g., real numbers).

Option C and D: Incorrect, as Bernoulli is always discrete, never continuous.

Thus, the correct answer is Option A (Discrete random variable).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Probability & Statistics for Data Science: Random Variables and Bernoulli Distribution.

### NEW QUESTION # 80

OCR (Optical Character Recognition) is an application used for:

- A. MapReduce
- B. Big Data Analytics
- C. Data mining
- D. Machine learning

**Answer: D**

Explanation:

Optical Character Recognition (OCR) is the process of automatically recognizing and converting different types of documents - such as scanned paper documents, PDFs, or images - into editable and searchable text.

OCR systems use Machine Learning (ML) and Computer Vision techniques to detect and classify patterns of characters in images.

Algorithms like Convolutional Neural Networks (CNNs) are commonly used for image-based OCR.

While OCR may indirectly contribute to data mining or big data workflows, the core application is based on machine learning, where models are trained to classify and recognize text patterns.

Thus, OCR is primarily a Machine Learning application, making Option B correct.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Applications of Machine Learning: OCR and Pattern Recognition.

### NEW QUESTION # 81

Which of the following is True about Time Series Analysis?

- A. Identifying interesting patterns in a corpus of time series data that is too large for a human to comb through
- B. Predicting when/whether an event will occur, such as a failure of the machine generating the data
- C. Projecting the value of the time series at future points in time, such as a stock whose price we want to predict
- D. Both A and B
- E. All of the above

**Answer: E**

Explanation:

Time Series Analysis (TSA) is the process of analyzing data collected sequentially over time to extract meaningful insights. Applications include:

Option A: Correct. Event prediction (e.g., failure detection in IoT or predictive maintenance).

Option B: Correct. Forecasting future values (e.g., stock price, sales forecasting).

Option C: Correct. Pattern discovery in large-scale time series datasets using clustering, anomaly detection, or seasonality detection.

Since all three are true, the best answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Analytics and Machine Learning: Time Series Analysis and Forecasting.

## NEW QUESTION # 82

The DevOps movement is an outgrowth of which of the following software development methodologies?

- **A. Agile**
- B. Test-driven development and model-driven development
- C. Waterfall
- D. Promise-based algorithms

**Answer: A**

Explanation:

The DevOps movement evolved as a natural extension of the Agile methodology.

Agile (Option A): Agile emphasizes iterative development, collaboration, and flexibility. While Agile improved software development speed, it created challenges in integrating development with IT operations.

DevOps emerged to address this by bringing operations into the Agile cycle - enabling continuous integration, delivery, and deployment.

Waterfall (Option B): Incorrect. Waterfall is a rigid, sequential methodology, fundamentally opposite to the DevOps philosophy.

Promise-based algorithms (Option C): Not a methodology - irrelevant here.

Test-driven development and model-driven development (Option D): While these practices support DevOps, they are not the origin of the movement.

Thus, the DevOps movement is an outgrowth of Agile methodology.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Agile and DevOps in Data Science Projects.

## NEW QUESTION # 83

Which of the following statements is correct?

- A. Apache claimed that Spark is able to run parallel jobs 50 times faster in memory and 5 times faster on disk in comparison to the traditional Hadoop MapReduce
- B. Apache claimed that Spark is able to run parallel jobs 10 times faster in memory and 100 times faster on disk in comparison to the traditional Hadoop MapReduce
- **C. Apache claimed that Spark is able to run parallel jobs 100 times faster in memory and 10 times faster on disk in comparison to the traditional Hadoop MapReduce**
- D. Apache claimed that Spark is able to run parallel jobs 1000 times faster in memory and 100 times faster on disk in comparison to the traditional Hadoop MapReduce

**Answer: C**

Explanation:

Apache Spark is a distributed computing framework designed as an improvement over Hadoop's MapReduce.

According to the official Apache Spark documentation:

Spark can run workloads up to 100x faster in memory.

Spark can run workloads up to 10x faster on disk.

This performance gain comes from Spark's use of in-memory computation, DAG execution engine, and optimized query execution, compared to the slower, disk-heavy Hadoop MapReduce framework.

Thus, the correct statement is Option A.

Reference:



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