

100% Pass Quiz 2026 SDS: High-quality Senior Data Scientist Exam Format

SDS Exam – NBRC Questions and Answers 100% Pass

The recommended HFF for recording electrocardiograph channel is **✓✓70Hz**

Which of the following would best describe rhythmic movement disorder?

1. Minimum frequency of 0.3Hz
 2. Max frequency of 2.0Hz
 3. Min number of 4 rhythmic movements
- a.1,2
b.2,3
c.1,3
d.1,2,3 **✓✓b**

A 14 year old boy is undergoing an overnight sleep study and has been started on CPAP. The pt is currently on 8cmH2O CPAP. What is the recommended max CPAP pressure for this pt

✓✓20cmH2O

What is max CPAP for pts under 12 years old? **✓✓15cmH2O**

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DASCA Senior Data Scientist Sample Questions (Q68-Q73):

NEW QUESTION # 68

Which of the following is correct?

- A. The central object in Pandas is called a DataFrame
- B. A data frame is a table with rows and columns
- C. All of the above
- D. Both A and B
- E. DataFrame is similar to SQL tables or R data frames

Answer: C

Explanation:

Pandas is one of the most widely used Python libraries for data analysis and manipulation. Its central object is the DataFrame.

Option A: Correct. DataFrame is the core data structure in Pandas.

Option B: Correct. DataFrame resembles SQL tables and R data frames, supporting row/column indexing, joins, and grouping.

Option C: Correct. A DataFrame is essentially a 2D labeled table consisting of rows and columns.

Option D: Correct, but not fully inclusive.

Option E: Correct, since all of A, B, and C are true.

Thus, the best answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Pandas Data Structures.

NEW QUESTION # 69

Which classification steps are performed in inductive techniques?

- i. Training Step
- ii. Test Step
- iii. Validation Step
- iv. Application Step

- A. i, ii, iv
- B. i, ii
- C. i, ii, iii, iv
- D. ii, iii

Answer: C

Explanation:

Inductive learning techniques in machine learning (such as decision trees, neural networks, or SVMs) follow a systematic sequence of steps for classification:

Training Step (i): A model is built using training data, where the system learns relationships between features and target labels.

Test Step (ii): The trained model is evaluated on unseen test data to measure its performance and generalizability.

Validation Step (iii): Often, a validation set is used to fine-tune model parameters, avoid overfitting, and choose the best model configuration.

Application Step (iv): The final validated model is applied to classify new, real-world data.

Since all four steps (i, ii, iii, iv) are essential to inductive classification, the correct answer is Option D (i, ii, iii, iv).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Analytics & Machine Learning: Classification and Inductive Learning Techniques.

NEW QUESTION # 70

Which of the following is NOT a valid section of Big Data Strategy document?

- A. Business strategy
- B. Key business entities
- C. Key decisions
- D. Business decisions
- E. Key business initiatives

Answer: D

Explanation:

A Big Data Strategy document provides a framework for aligning data initiatives with organizational objectives. It typically includes:

Business strategy (Option A): Ensures that big data initiatives align with overall corporate strategy.

Key decisions (Option B): Identifies the decisions data will help optimize or automate.

Key business initiatives (Option D): Links big data projects with critical organizational initiatives.

Key business entities (Option E): Defines the core entities (customers, products, channels) around which data will be organized.

However:

Business decisions (Option C): This is redundant and not a standard section; "key decisions" covers this aspect already.

Thus, the correct answer is Option C (Business decisions).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Big Data Strategy and Business Alignment.

NEW QUESTION # 71

Designing an algorithm to play chess is usually an example of which type of machine learning?

- A. Pattern density
- B. Reinforcement learning
- C. Clustering
- D. Supervised learning

Answer: B

Explanation:

Chess-playing algorithms are a classic application of Reinforcement Learning (RL) in machine learning.

In RL, an agent (chess program) interacts with an environment (chessboard/game state).

It learns optimal strategies (policies) by trial and error, guided by reward signals (e.g., winning the game, capturing pieces).

Famous examples include DeepMind's AlphaZero and earlier systems like IBM's Deep Blue, which incorporated reinforcement principles along with heuristics.

Option B (Pattern density): Not a recognized ML paradigm

Option C (Supervised learning): While supervised ML can be used to predict moves from labeled games, chess strategy learning is best modeled as reinforcement learning.

Option D (Clustering): Not applicable; clustering is unsupervised grouping of data.

Thus, chess-playing algorithms are best categorized as Reinforcement Learning # Option A.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Reinforcement Learning Applications: Games & Autonomous Systems.

NEW QUESTION # 72

Semi-structured data does NOT include:

- A. Scientific data
- B. Database system
- C. File systems
- D. Schema-full data

Answer: D

Explanation:

Semi-structured data falls between structured data (e.g., relational databases with fixed schema) and unstructured data (e.g., free text, audio, video). It typically includes irregular or flexible schema information, such as XML, JSON, email data, or log files.

Option A (Database systems): Correct, databases may hold semi-structured content (e.g., JSON or XML columns).

Option B (File systems): Correct, file-based storage (logs, JSON, Avro, CSV) often contains semi-structured data.

Option C (Scientific data): Correct, many scientific applications generate semi-structured data formats (sensor readings, genomic sequences, etc.).

Option D (Schema-full data): Correct Answer. Schema-full (strict schema-defined relational tables) represent structured data, not semi-structured.

Thus, semi-structured data does NOT include schema-full data.

Reference:

NEW QUESTION # 73

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