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**NBRC SDS EXAM 2025 REAL 330 EXAM QUESTIONS WITH CORRECT DETAILED AND VERIFIED ANSWERS/ALREADY GRADED A+/NEWEST 2025**

What is the minimum and preferred sampling rate? -SOLUTION>

>Min 200Hz; Preferred 500Hz

Which respiratory equipment is used to measure apneas? -SOLUTION>

>Thermistor/thermocouple

What are some common troubleshooting issues for the thermistor? -

SOLUTION> >Warm the room, remove fan,moisture on the sensor,

battery needs to be changed

What is considered the gold standard for measuringrespiratory

effort? - SOLUTION> >RIP belts

What equipment is used to measure RERAs and Hypopneas?

- SOLUTION> >nasal pressure transducer (PTAF)

What is some common troubleshooting issues for the PTAF? -SOLUTION>

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## SDS Real Exam Answers, SDS Simulation Questions

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# DASCA Senior Data Scientist Sample Questions (Q47-Q52):

**NEW QUESTION # 47**
Which of the following is a useful feature of functional programming?

- A. All of the above
- B. Lazy Evaluation
- C. Higher-Order Functions (HOFs)
- D. Immutable Data

**Answer: A**

Explanation:
Functional programming (FP) is a paradigm widely adopted in data science and big data tools (e.g., Spark with Scala/Python). Its useful features include:
Option A (Higher-Order Functions): Functions can take other functions as arguments or return them, enabling powerful abstractions like map(), reduce(), and filter().
Option B (Immutable Data): Ensures reliability and thread-safety, crucial for distributed computing. Once created, data structures cannot be modified, preventing side effects.
Option C (Lazy Evaluation): Computations are delayed until results are needed, improving performance in large-scale data operations.
Since FP leverages all three features, the correct answer is Option D (All of the above).
Reference:
DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Functional Programming in Data Science Tools.

**NEW QUESTION # 48**
Which of the following errors refers to the wrong negation of a true null hypothesis?

- A. None of the above
- B. Type II Error
- C. Type I Error
- D. Hypothesis Error
- E. Logical Error

**Answer: C**

Explanation:
In hypothesis testing, two main types of errors are defined:
Type I Error (Option A): Occurs when the null hypothesis (H#) is true, but we incorrectly reject it. This is known as a false positive. Example: Concluding a drug is effective when it is not.
Type II Error (Option B): Occurs when the null hypothesis (H#) is false, but we fail to reject it. This is a false negative. Example: Concluding a drug has no effect when it actually does.
Logical Error / Hypothesis Error (Options C and D): Not standard terms in statistical hypothesis testing.
Thus, the "wrong negation of a true null hypothesis" refers to a Type I Error (false positive).
Reference:
DASCA Data Scientist Knowledge Framework (DSKF) - Statistical Foundations in Data Science: Hypothesis Testing & Errors.

**NEW QUESTION # 49**
Which of the following is TRUE for Tensor?

- A. All of the above
- B. Tensor is an array of floating-point numbers
- C. Tensor is used to describe multidimensional arrays of numbers on which we perform linear operations
- D. Both B and C
- E. In Tensor, there can be arbitrarily many dimensions to the array

**Answer: A**

Explanation:
A Tensor is a fundamental data structure in modern machine learning frameworks (e.g., TensorFlow, PyTorch). It is best described as a generalization of vectors and matrices to potentially higher dimensions.
Option A: Correct. Tensors typically store numeric values (commonly floating-point numbers) in structured formats.
Option B: Correct. A tensor can have any number of dimensions (rank). For example:
A scalar is a 0-D tensor.
A vector is a 1-D tensor.
A matrix is a 2-D tensor.
Higher-rank tensors can represent images, videos, or multidimensional datasets.
Option C: Correct. Tensors are explicitly designed to allow linear algebra operations, which are the foundation of deep learning computations (matrix multiplications, dot products, etc.).
Therefore, since all three statements are true, the correct answer is Option E (All of the above).
Reference:
DASCA Data Scientist Knowledge Framework (DSKF) - Analytics and Machine Learning, Deep Learning Concepts; Official DASCA Study Guide.

## NEW QUESTION # 50
Which of the following is NOT an example of the applications of neural networks?

- A. None of the above
- B. Character recognition
- C. Stock market prediction
- D. Image compression
- E. Traveling salesman's problem

**Answer: E**

Explanation:
Neural networks have been widely applied in various domains:
Option A (Character recognition): Correct application - neural networks are highly effective for OCR (Optical Character Recognition).
Option B (Stock market prediction): Correct application - neural networks are used to model time-series and nonlinear patterns in finance.
Option D (Image compression): Correct application - neural nets (autoencoders) are used for dimensionality reduction and compression.
Option C (Traveling salesman's problem): NOT a typical neural network application. This is a combinatorial optimization problem usually solved with heuristics, dynamic programming, or optimization algorithms (not standard neural networks).
Thus, the correct answer is Option C (Traveling salesman's problem).
Reference:
DASCA Data Scientist Knowledge Framework (DSKF) - Machine Learning Applications of Neural Networks.

## NEW QUESTION # 51
Which of the following is NOT a part of Internal Process Optimization?

- A. Business Metamorphosis
- B. None of the above
- C. Business Insights
- D. Business Monitoring
- E. Business Optimization

**Answer: A**

Explanation:
Internal Process Optimization (IPO) is one of the core applications of data science in business operations. It focuses on improving internal efficiency, reducing costs, and enhancing productivity using data-driven insights.
Typical components of IPO include:
Business Monitoring (Option A): Tracking performance metrics and KPIs in real time.
Business Insights (Option C): Identifying trends, anomalies, and inefficiencies through analytics.
Business Optimization (Option D): Applying data models to optimize workflows, resource utilization, or supply chains.

However:

Business Metamorphosis (Option B): Refers to fundamental transformational change or reinvention of a business model, not process-level optimization. This is more aligned with strategic transformation, not internal process optimization.

Therefore, the correct answer is Option B (Business Metamorphosis).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: Internal Process Optimization.

**NEW QUESTION # 52**

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