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SDS EXAM-NBRC NEWEST 2024-2025 ACTUAL EXAM AND PRACTICE EXAM COMPLETE 400 QUESTIONS AND CORRECT DETAILED ANSWERS (VERIFIED ANSWERS) | ALREADY GRADED A+

What is CMRR and what is it used for - ANSWER- **Common Mode Rejection Ratio**
Filter unwanted electrical signals

Two other names for 60Hz artifact - ANSWER- **Line Filter**
Notch Filter

What terms describes the time in sec for a waveform to drop to 37% of its calculated amplitude - ANSWER- **Time Constant**

Maximum allowable impedance value - ANSWER- **5 KOhms**

Minimum digital resolution - ANSWER- **12 bits per sample**

A pt with Parkinsons disease is scheduled for an overnight sleep study. Which of the following disorders should the sleep tech expect to see during the study? - ANSWER- **CSA**

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DASCA Senior Data Scientist Sample Questions (Q83-Q88):

NEW QUESTION # 83

Which of the following is NOT Structured data?

- A. CSV files
- **B. XML**
- C. None of the above
- D. Data tables
- E. Relational databases

Answer: B

Explanation:

Structured data refers to highly organized data stored in predefined formats such as rows and columns.

Relational databases (Option A): Structured.

Data tables (Option B): Structured.

CSV files (Option C): Structured because they are tabular with rows and columns.

XML (Option D): Not structured but semi-structured because it stores hierarchical information with tags and attributes.

Thus, the correct answer is Option D (XML).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Big Data Fundamentals: Structured vs Semi- structured Data.

NEW QUESTION # 84

Which of the following is FALSE for Social Network Analysis (SNA)?

- A. Social Network Analysis (SNA) is an example of graph analysis
- **B. Social Network Analysis (SNA) is an example of trend analysis**
- C. None of the above
- D. SNA is used to investigate social structures and relationships across social networks
- E. SNA characterizes networked structures in terms of nodes and the ties or edges that connect them

Answer: B

Explanation:

Social Network Analysis (SNA) is a powerful analytical method that applies graph theory to study relationships among entities (people, organizations, computers, etc.).

Option A: Correct. SNA is indeed an example of graph analysis because it models entities as nodes and their relationships as edges/ties.

Option B: FALSE. SNA is not an example of trend analysis. Trend analysis focuses on temporal patterns (time series), while SNA is structural and relational.

Option C: Correct. SNA investigates structures such as communities, influencers, and information diffusion in networks.

Option D: Correct. The characterization of nodes and edges is central to SNA.

Option E: Incorrect, since we've identified Option B as false.

Thus, the false statement is Option B.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Analytics: Graph Analysis & Social Network Analysis.

NEW QUESTION # 85

SpamAssassin has been developed to detect:

- A. Email with virus
- **B. Spam emails**
- C. None of the above
- D. Email with big attachments

Answer: B

Explanation:

Apache SpamAssassin is one of the most widely used open-source tools for spam email detection. It applies a rule-based system combined with Bayesian filtering, heuristics, and collaborative filtering methods to classify incoming emails as spam or legitimate.

Option A (Spam emails): Correct, this is the main function.

Option B (Big attachments): Incorrect. Large attachment filtering is not its primary purpose.

Option C (Email with virus): Incorrect. That falls under antivirus or malware detection tools, not SpamAssassin.

Option D: Incorrect since A is valid.

Thus, the correct answer is Option A (Spam emails).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: Email Filtering and Text Mining

NEW QUESTION # 86

Which of the following standardizes scores similar to a percentile rank but preserves equal interval properties of a Z-score?

- A. Medium Curve Equivalent (MCE)
- B. High Curve Equivalent (HCE)
- C. None of the above
- D. Trend analysis
- E. **Normal Curve Equivalent (NCE)**

Answer: E

Explanation:

Normal Curve Equivalent (NCE) scores are standardized scores designed to:

Range between 1 and 99.

Be comparable to percentile ranks but with the advantage of equal-interval properties like Z-scores.

This makes NCE scores useful in educational assessments, survey analysis, and statistical modeling.

Option A (Trend analysis): Incorrect. Not related to score standardization.

Option B (Correct): NCE fits the definition perfectly.

Option C (HCE) & D (MCE): Not recognized standard measures in statistics.

Option E: Incorrect, since Option B is valid.

Thus, the correct answer is Option B: Normal Curve Equivalent (NCE).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Statistical Methods in Data Science: Z-scores, Percentiles, and NCE.

NEW QUESTION # 87

In regression, the principle of machine learning is used to optimize the parameters to:

- A. Calculate the closest possible outcomes
- B. None of the above
- C. **Both A and B**
- D. Minimize the approximation error

Answer: C

Explanation:

Regression is a supervised learning technique where a model estimates the relationship between input features (independent variables) and an output (dependent variable).

Option A: Correct. The learning process involves optimizing model parameters (e.g., coefficients in linear regression) to minimize approximation error. Common loss functions include Mean Squared Error (MSE) or Mean Absolute Error (MAE).

Option B: Correct. Minimizing error enables the model to produce the closest possible outcomes to the actual observed values, ensuring accurate predictions.

Option C: Correct, since both A and B are true.

Option D: Incorrect.

Thus, regression optimization in machine learning aims to minimize approximation error and generate closest possible outcomes, making Option C the correct answer.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Analytics & Machine Learning: Regression Models and Optimization Principles.

NEW QUESTION # 88

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