

SDS Exam Study Solutions & SDS Reliable Dumps Ppt

NBRC SDS Exam Study Guide with Complete Solutions

100% Verified Correct Answers 2024

What is the minimum and preferred sampling rate? - Correct Answer Min 200Hz; Preferred 500Hz

Which respiratory equipment is used to measure apneas? - Correct Answer Thermistor/thermocouple

What are some common troubleshooting issues for the thermistor? - Correct Answer Warm the room, remove fan, moisture on the sensor, battery needs to be changed

What is considered the gold standard for measuring respiratory effort? - Correct Answer RIP belts

What equipment is used to measure RERAs and Hypopneas? - Correct Answer nasal pressure transducer (PTAF)

What are some common troubleshooting issues for the PTAF? - Correct Answer rhinorrhea, position of the sensor, mouthbreathing, LFF can cause a damped waveform

Normal ETCO₂ in mmHg and percent - Correct Answer 30 torr and 3-5%

What are common issues that can affect the TCOM reading? - Correct Answer skin thickness, anemia, decreased perfusion

How do you calibrate the TCOM? - Correct Answer with RA

What will happen to the readings if the TCOM has a leak? - Correct Answer PO₂ will increase to room PO₂, PCO₂ will decrease to zero

The snore mic is used to detect what? - Correct Answer Bruxism

What are the scores of Epworth Sleepiness scale? - Correct Answer 0-5 low-normal daytime sleepiness

6-10 high-normal daytime sleepiness

11-12 Mild EDS

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DASCA Senior Data Scientist Sample Questions (Q16-Q21):

NEW QUESTION # 16

Which of the following can be classified as factor analysis in machine learning?

- A. None of the above
- B. Confirmatory factor analysis
- C. Exploratory factor analysis
- D. Both A and B

Answer: D

Explanation:

Factor analysis is a dimensionality reduction technique used to uncover latent variables (factors) that explain observed patterns of correlations in data. It is widely used in psychometrics, social sciences, and machine learning.

Exploratory Factor Analysis (EFA, Option A): Used when the underlying factor structure is unknown, aiming to discover potential latent variables.

Confirmatory Factor Analysis (CFA, Option B): Used when there is a hypothesis about factor structure, and the goal is to confirm it statistically.

Both are valid approaches to factor analysis, hence the correct answer is Option C (Both A and B).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Dimensionality Reduction & Factor Analysis in Machine Learning.

NEW QUESTION # 17

Which of the following is correct about microservices?

- A. Each service is independent
- B. Each service is a new project
- C. Each service can be developed in any language that best fits the requirement
- D. All of the above

Answer: D

Explanation:

Microservices architecture is a software design approach where applications are developed as a collection of small, loosely coupled, and independently deployable services.

Option A: Correct. Each microservice runs independently and has its own lifecycle, allowing scalability and modularity.

Option B: Correct. Each service can be treated as an independent project with its own repository, build pipeline, and deployment.

Option C: Correct. Microservices can be developed in different programming languages or frameworks, chosen based on the best fit for each specific requirement.

Therefore, the correct answer is Option D (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Management & Engineering: Microservices in Data Ecosystems.

NEW QUESTION # 18

Machine learning can be used in:

- A. Pattern and image recognition
- B. Web search results
- C. All of the above
- D. Fraud detection
- E. Real-time ads on web pages and mobile devices

Answer: C

Explanation:

Machine Learning has broad applications across industries and technologies:

Fraud Detection (Option A): Detecting anomalies in financial transactions, credit card usage, and cybersecurity threats.

Web Search Results (Option B): Ranking algorithms (e.g., Google's PageRank enhanced by ML techniques) improve relevance of search queries.

Real-time Ads (Option C): Online ad systems use reinforcement learning and recommendation models to target ads dynamically.

Pattern & Image Recognition (Option D): ML (especially deep learning) powers facial recognition, handwriting recognition, medical imaging, etc.

Since ML is used in all these applications, the correct answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Applications of Machine Learning Across Domains.

NEW QUESTION # 19

What is DevOps?

- A. Software Development
- B. Quality Assurance
- C. Software Operations
- D. All

Answer: D

Explanation:

DevOps is not just about coding (development) or system administration (operations). It is a holistic cultural and technical practice that unifies:

Software Development (Option A): Writing and building applications.

Software Operations (Option B): Deploying, monitoring, and maintaining systems in production.

Quality Assurance (Option C): Ensuring the reliability, security, and performance of applications through testing and automation.

Thus, DevOps encompasses all three dimensions, making the correct answer Option D (All).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: DevOps & Continuous Delivery.

NEW QUESTION # 20

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

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

Answer: D

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 # 21

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