

Valid Braindumps SDS Questions - SDS Exam Exercise

SDS Exam – NBRC QUESTIONS WITH CORRECT VERIFIED ANSWERS

QUESTION>The chin EMG signal for a sleeping pt rapidly fluctuates from high to low amp, obscuring the entire record after the pt turns to his left side. The sleep tech should first....

- a. reference the problem EMG sensor
- b. have the pt rtn to previous position
- c. awaken the pt and replace the problem sensor
- d. turn off the EMG signal temporarily - ANSWER~a.

QUESTION>While scoring a record a sleep tech notes frequent leg movements occurring about every 60 secs that are associated with respiratory events. The sleep tech should document these movements as....

- a. PLM
- b. normal
- c. unscored
- d. artifact - ANSWER~c.

QUESTION>It has been 90 min since lights out and a pt is sleeping supine, with intermittent snoring and occasional hypopneas. For the last 10 minutes the SpO2 has been 79%. The sleep tech should....

- a. complete the study and document results
- b. administer O2 at 1L NC
- c. wake the pt to verify SpO2 reliability
- d. Initiate CPAP protocol - ANSWER~c.

QUESTION>The right ECG chest lead dislodges from the pt during the night. the sleep tech should reference what lead?

- a. left ear
- b. right ear
- c. right leg
- d. left leg - ANSWER~b. (next most proximal lead)

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DASCA Senior Data Scientist Sample Questions (Q40-Q45):

NEW QUESTION # 40

Which of the following architectural techniques is used for parallel processing?

- A. Both A and B
- B. Both B and C
- C. The SuperVector Technique
- D. Very Long Instruction Words (VLIW) Technique
- E. The Superscalar Technique

Answer: A

Explanation:

Parallel processing architectures are designed to execute multiple instructions or operations simultaneously:

Superscalar Technique (Option A): Uses multiple execution units so that several instructions can be issued and executed in parallel within a single CPU cycle.

VLIW Technique (Option B): Uses very long instruction words, where multiple operations are encoded into a single instruction and executed in parallel.

SuperVector (Option C): Refers to vector processors, which process large arrays of data but is not classified as a mainstream architectural parallel technique in modern CPU design.

Therefore, the primary architectural techniques for parallel processing are Superscalar and VLIW, making Option D (Both A and B) correct.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Engineering Architectures: Parallel and Distributed Processing.

NEW QUESTION # 41

Which of the following is correct for Markov chain?

- A. Both B and C
- B. A Markov chain is the state of a system at sequential points in time
- C. A Markov chain is a sequence of fixed variables X1, X2
- D. A Markov chain is a sequence of random variables X1, X2
- E. Both A and B

Answer: A

Explanation:

A Markov chain is a stochastic process describing a sequence of possible events, where the probability of each event depends only on the state attained in the previous step (the Markov property).

Option A: Incorrect. The variables are random, not fixed.

Option B: Correct. Markov chains represent the state of a system at sequential time points.

Option C: Correct. A Markov chain is indeed a sequence of random variables $\{X_1, X_2, \dots\}$ that satisfy the Markov property.

Option D: Incorrect, since A is wrong.

Option E: Correct, because both B and C are valid.

Thus, the correct answer is Option E (Both B and C).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Probabilistic Models: Markov Chains.

NEW QUESTION # 42

Which of the following is NOT a correct situation to use Agile?

- A. When clients/stakeholders need to be able to change the scope
- B. When changes need to be implemented during the entire process
- C. When the final product isn't clearly defined
- D. None of the above

Answer: D

Explanation:

Agile methodology is widely adopted in data science projects because these projects often involve uncertain goals, exploratory

analysis, and changing requirements. Agile thrives in environments where iteration, collaboration, and adaptability are necessary. Option A: True for Agile. If the final product is unclear (common in data science), Agile works well because it allows incremental discovery and iterative prototyping.

Option B: True for Agile. Agile frameworks (Scrum, Kanban) emphasize flexibility, which means the scope can evolve as stakeholders learn more from data and models.

Option C: True for Agile. Agile welcomes continuous changes through iterative sprints and feedback loops.

This adaptability is crucial in machine learning model development where data insights often reshape project direction.

Since all three situations are valid for Agile, the correct answer to "Which is NOT correct?" is None of the above (Option D).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science & Agile Methodologies in Data Projects.

NEW QUESTION # 43

Data wrangling is the process of getting the data from:

- A. Its modified meaning format into something suitable for more conventional analytics
- B. Its raw format into something suitable for more conventional analytics
- C. None of the above
- D. Both A and B

Answer: B

Explanation:

Data wrangling (also called data munging) refers to transforming raw, messy, or unstructured data into a clean and structured format suitable for analysis.

Option A: Correct. Raw data often contains missing values, duplicates, or irregular formats. Wrangling prepares it for conventional analytics and machine learning.

Option B: Incorrect. Wrangling does not involve "modified meaning"; it focuses on cleaning, structuring, and integrating.

Option C: Incorrect, since only A is correct.

Option D: Incorrect, because wrangling is explicitly described in A.

Thus, the correct answer is Option A.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Engineering Practices: Data Wrangling & Preprocessing.

NEW QUESTION # 44

Machine learning can be categorized as:

- A. Reinforcement learning
- B. All of the above
- C. Unsupervised learning
- D. Supervised learning

Answer: B

Explanation:

Machine learning (ML) can be broadly divided into three main paradigms:

Supervised Learning (Option A):

Data includes labeled outputs (e.g., classification, regression).

Goal: Learn a mapping from input to output.

Unsupervised Learning (Option B):

Data has no labels.

Goal: Discover hidden patterns (e.g., clustering, dimensionality reduction).

Reinforcement Learning (Option C):

Agent interacts with an environment and learns by maximizing cumulative rewards through trial and error.

Used in robotics, game AI, and autonomous systems.

Since all three categories are valid, the correct answer is Option D (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Machine Learning Paradigms: Supervised, Unsupervised, Reinforcement.

NEW QUESTION # 45

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