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SDS EXAM – NBRC LATEST 2025-2026 REVISED UPDATE EXAM QUESTIONS AND ANSWERS| COMPREHENSIVE EXAM

Describe the anatomic position an esophageal pH catheter should be placed - Answer-Cather tip should be 5cm above the upper border of the lower esophageal sphincter

Another name for the disinfecting agent Cidex?

How long for this agent to disinfect?

How long for this agent to sterilize - Answer-Alkaline gluteraldehyde

10 min

10 hours

Another name for the disinfecting agent Sonacide?

How long for this agent to disinfect?

How long for this agent to sterilize? - Answer-Acid gluteraldehyde

10 min

1 hour

An ECG tracing shows a beat with an irregular rhythm, QRS >0.12sec, and a varying rate. The sleep tech would classify this as - Answer-PVC

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DASCA Senior Data Scientist Sample Questions (Q29-Q34):

NEW QUESTION # 29

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

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

Answer: D

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 # 30

Which of the following is a Python library for fitting Bayesian networks to real data?

- A. MyLib
- B. SCIMC
- C. MCMC
- **D. PyMC**
- E. SciLib

Answer: D

Explanation:

The correct answer is PyMC (Option B).

PyMC is an open-source Python library widely used for Bayesian statistical modeling and probabilistic machine learning. It provides a robust framework for defining and fitting Bayesian networks to real data using Markov Chain Monte Carlo (MCMC) sampling techniques, as well as variational inference methods.

This makes it a powerful tool for data scientists who want to work with uncertainty modeling, probabilistic inference, and causal reasoning in complex datasets.

Let's clarify the other options to avoid confusion:

* Option A: SciLib- There is no standard Python library by this name that is related to Bayesian networks. (It may be confused with SciPy or SciKit-Learn, but those are not specialized for Bayesian inference.)

* Option C: MyLib- This is not a recognized Python package in the data science ecosystem.

* Option D: MCMC- While Markov Chain Monte Carlo is the technique used in Bayesian estimation, it is not a standalone library. Instead, PyMC implements MCMC as part of its computational framework.

* Option E: SCIMC- No such Python library exists; it appears to be a distractor.

PyMC's primary strength is its ability to let data scientists define models in a probabilistic programming style, making it easier to represent uncertainties and hidden variables in data. This aligns with DASCA's emphasis on ensuring data scientists understand both statistical foundations and the tools required to implement them programmatically.

In practice, PyMC is often used in applications such as:

* Forecasting (e.g., time series with uncertainty bounds)

- * Causal inference (estimating hidden relationships in data)
- * Risk modeling (finance, healthcare, or supply chain domains)
- * Machine learning with uncertainty quantification

Thus, PyMC is the correct library for fitting Bayesian networks in Python.

Reference: DASCAS Data Scientist Knowledge Framework (DSKF) - Programming for Data Science & Probabilistic Modeling Tools, Official DASCAS Study Guide.

NEW QUESTION # 31

Which of the following is True about Time Series Analysis?

- A. All of the above
- B. Both A and B
- C. Projecting the value of the time series at future points in time, such as a stock whose price we want to predict
- D. Identifying interesting patterns in a corpus of time series data that is too large for a human to comb through
- E. Predicting when/whether an event will occur, such as a failure of the machine generating the data

Answer: A

Explanation:

Time Series Analysis (TSA) is the process of analyzing data collected sequentially over time to extract meaningful insights. Applications include:

Option A: Correct. Event prediction (e.g., failure detection in IoT or predictive maintenance).

Option B: Correct. Forecasting future values (e.g., stock price, sales forecasting).

Option C: Correct. Pattern discovery in large-scale time series datasets using clustering, anomaly detection, or seasonality detection.

Since all three are true, the best answer is Option E (All of the above).

Reference:

DASCAS Data Scientist Knowledge Framework (DSKF) - Analytics and Machine Learning: Time Series Analysis and Forecasting.

NEW QUESTION # 32

Which of the following can visualize variations in the base data, which can be used to identify outliers in the data for further investigation?

- A. Scatter Plot
- B. Trend Analysis
- C. Histogram
- D. Box Plots
- E. None of the above

Answer: D

Explanation:

Box plots (or Whisker plots) are statistical graphics that represent data distribution through:

Minimum, First Quartile (Q1), Median, Third Quartile (Q3), and Maximum.

Outliers are plotted as individual points beyond the whiskers.

This makes them particularly powerful for:

Identifying outliers in data.

Comparing distributions across categories.

Understanding variability in data.

Option A (Trend Analysis): Shows temporal patterns, not individual outliers.

Option C (Histogram): Shows frequency distribution but does not explicitly highlight outliers.

Option D (Scatter Plot): Shows relationships between variables but doesn't focus on statistical outliers in one distribution.

Thus, the correct answer is Option B (Box Plots).

Reference:

DASCAS Data Scientist Knowledge Framework (DSKF) - Data Visualization Tools: Box Plots for Outlier Detection.

NEW QUESTION # 33

Which of the following is NOT used to implement Agile?

- A. Six Sigma
- B. Kanban
- C. Scrum
- D. Extreme Programming (XP)

Answer: A

Explanation:

Agile is a project management and product development methodology that emphasizes flexibility, iterative development, collaboration, and adaptability. Common frameworks that implement Agile principles include:

Scrum (Option A): A widely used Agile framework where work is divided into time-boxed sprints, roles are clearly defined (Scrum Master, Product Owner, Development Team), and progress is tracked via tools like burn down charts.

Kanban (Option B): A visual Agile method that manages workflow using a pull-based system with Kanban boards to visualize tasks and control work in progress (WIP).

Extreme Programming (XP, Option D): Another Agile method that focuses on high-quality software through technical practices like continuous integration, test-driven development (TDD), and pair programming.

By contrast:

Six Sigma (Option C): Six Sigma is a process improvement methodology that emphasizes reducing defects and improving quality through statistical analysis. It is not considered an Agile implementation framework.

Thus, the correct answer is Six Sigma (C).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Agile Methodologies and Project Management in Data Science.

NEW QUESTION # 34

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