

DY0-001 Latest Exam Vce & DY0-001 Detailed Answers



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➤ Vendor: Cisco

➤ Exam Code: 200-301

➤ Exam Name: CCNA - Cisco Certified Network Associate

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QUESTION 227

Refer to the exhibit. Router R1 is running three different routing protocols. Which route characteristic is used by the router to forward the packet that it receives for destination IP 172.16.32.1?

```
R1# show ip route
....
D    172.16.32.0/27    [90/2888597172] via 20.1.1.1
O    172.16.32.0/19    [110/292094] via 20.1.1.10
R    172.16.32.0/24    [120/2] via 20.1.1.3
```

- A. longest prefix
- B. administrative distance
- C. cost
- D. metric

Answer: A

QUESTION 228

Refer to the exhibit. Router R1 Fa0/0 cannot ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

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CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	Modeling, Analysis, and Outcomes: This section of the exam measures skills of a Data Science Consultant and focuses on exploratory data analysis, feature identification, and visualization techniques to interpret object behavior and relationships. It explores data quality issues, data enrichment practices like feature engineering and transformation, and model design processes including iterations and performance assessments. Candidates are also evaluated on their ability to justify model selections through experiment outcomes and communicate insights effectively to diverse business audiences using appropriate visualization tools.
Topic 2	Specialized Applications of Data Science: This section of the exam measures skills of a Senior Data Analyst and introduces advanced topics like constrained optimization, reinforcement learning, and edge computing. It covers natural language processing fundamentals such as text tokenization, embeddings, sentiment analysis, and LLMs. Candidates also explore computer vision tasks like object detection and segmentation, and are assessed on their understanding of graph theory, anomaly detection, heuristics, and multimodal machine learning, showing how data science extends across multiple domains and applications.
Topic 3	Mathematics and Statistics: This section of the exam measures skills of a Data Scientist and covers the application of various statistical techniques used in data science, such as hypothesis testing, regression metrics, and probability functions. It also evaluates understanding of statistical distributions, types of data missingness, and probability models. Candidates are expected to understand essential linear algebra and calculus concepts relevant to data manipulation and analysis, as well as compare time-based models like ARIMA and longitudinal studies used for forecasting and causal inference.
Topic 4	Operations and Processes: This section of the exam measures skills of an AI ML Operations Specialist and evaluates understanding of data ingestion methods, pipeline orchestration, data cleaning, and version control in the data science workflow. Candidates are expected to understand infrastructure needs for various data types and formats, manage clean code practices, and follow documentation standards. The section also explores DevOps and MLOps concepts, including continuous deployment, model performance monitoring, and deployment across environments like cloud, containers, and edge systems.
Topic 5	Machine Learning: This section of the exam measures skills of a Machine Learning Engineer and covers foundational ML concepts such as overfitting, feature selection, and ensemble models. It includes supervised learning algorithms, tree-based methods, and regression techniques. The domain introduces deep learning frameworks and architectures like CNNs, RNNs, and transformers, along with optimization methods. It also addresses unsupervised learning, dimensionality reduction, and clustering models, helping candidates understand the wide range of ML applications and techniques used in modern analytics.

CompTIA DataX Certification Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

A data scientist is analyzing a data set with categorical features and would like to make those features more useful when building a model. Which of the following data transformation techniques should the data scientist use? (Choose two.)

- A. Scaling
- B. Pivoting
- C. Linearization
- D. Normalization
- E. One-hot encoding
- F. Label encoding

Answer: E,F

Explanation:

Categorical variables must be transformed into numerical form for most machine learning models. Two standard approaches:

* One-hot encoding: Converts each category into a separate binary column (useful for nominal variables).

* Label encoding: Converts categories into integers (useful for ordinal or tree-based models).

Why other options are incorrect:

* A & E: Normalization and scaling are used for continuous variables, not categorical.

* C: Linearization refers to transforming relationships, not categorical conversion.

* F: Pivoting rearranges data structure but doesn't encode categories.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.3: "Label encoding and one-hot encoding are common transformations applied to categorical variables to enable model compatibility."

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NEW QUESTION # 48

A data scientist is clustering a data set but does not want to specify the number of clusters present. Which of the following algorithms should the data scientist use?

- A. k-nearest neighbors
- **B. DBSCAN**
- C. k-means
- D. Logistic regression

Answer: B

Explanation:

DBSCAN (Density-Based Spatial Clustering of Applications with Noise) is a density-based clustering algorithm that does not require specifying the number of clusters in advance. It identifies clusters of arbitrary shape and separates noise/outliers based on density thresholds.

Why other options are incorrect:

* B: k-NN is a supervised classification algorithm, not used for clustering.

* C: k-means requires predefining the number of clusters (k).

* D: Logistic regression is a classification model, not for clustering.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 4.2: "DBSCAN detects clusters based on data density without the need for a predefined k value and handles outliers effectively."

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NEW QUESTION # 49

A data scientist is building a forecasting model for the price of copper. The only input in this model is the daily price of copper for the last ten years. Which of the following forecasting techniques is the most appropriate for the data scientist to use?

- A. Dynamic time warping
- **B. Autoregressive**
- C. Moving average
- D. Relative strength

Answer: B

Explanation:

An Autoregressive (AR) model is ideal when past values of a time series are used to predict future values.

Since the only input is historical price data of copper, AR is the most appropriate technique.

Why the other options are incorrect:

* B: Moving average smooths noise but doesn't model the dependencies for prediction.

* C: Dynamic time warping is used for measuring similarity between time series, not forecasting.

* D: Relative strength is a financial metric used for comparing asset performance - not a forecasting technique.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.5: "Autoregressive models are used when the goal is to predict future values based solely on past values in a univariate time series."

* Time Series Analysis and Forecasting, Chapter 5: "AR models capture the temporal dependencies in time series data and are foundational in time-based prediction."

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NEW QUESTION # 50

A data scientist is creating a responsive model that will update a product's daily pricing based on the previous day's sales volume. Which of the following resource constraints is the data scientist's greatest concern?

- A. Deployment time
- **B. Training time**
- C. Data collection time
- D. Development time

Answer: B

Explanation:

Since the model must update daily based on new data, retraining must be fast enough to meet daily deadlines. Therefore, training time is the critical constraint - it determines whether pricing updates can be executed promptly.

Why the other options are incorrect:

- * A: Deployment time is a one-time or infrequent process.
- * C: Development time is less critical once the model is built.
- * D: Data is already collected daily - assumed to be available.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4: "Time-sensitive applications such as daily pricing require fast model retraining, making training time a critical factor."

* Real-Time ML Deployment Handbook, Chapter 6: "Retraining time is the bottleneck in time- constrained systems that adapt to fresh inputs regularly."

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NEW QUESTION # 51

Which of the following methods should a data scientist use just before switching to a potential replacement model?

- A. CI/CD
- **B. A/B testing**
- C. Performance monitoring
- D. Containerization

Answer: B

Explanation:

A/B testing allows a controlled experiment comparing the performance of two models - the current (A) vs. the candidate (B) - on live data. It's an industry best practice to validate real-world behavior before full replacement.

Why the other options are incorrect:

- * B: Performance monitoring helps detect drift but doesn't directly compare models.
- * C: CI/CD automates deployment but doesn't evaluate performance differences.
- * D: Containerization packages the model but doesn't test it comparatively.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 5.5: "A/B testing is a recommended approach to validate model performance before switching versions in production."

* ML System Operations Guide, Chapter 6: "Use A/B testing to ensure new models outperform baselines before full rollout."

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NEW QUESTION # 52

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