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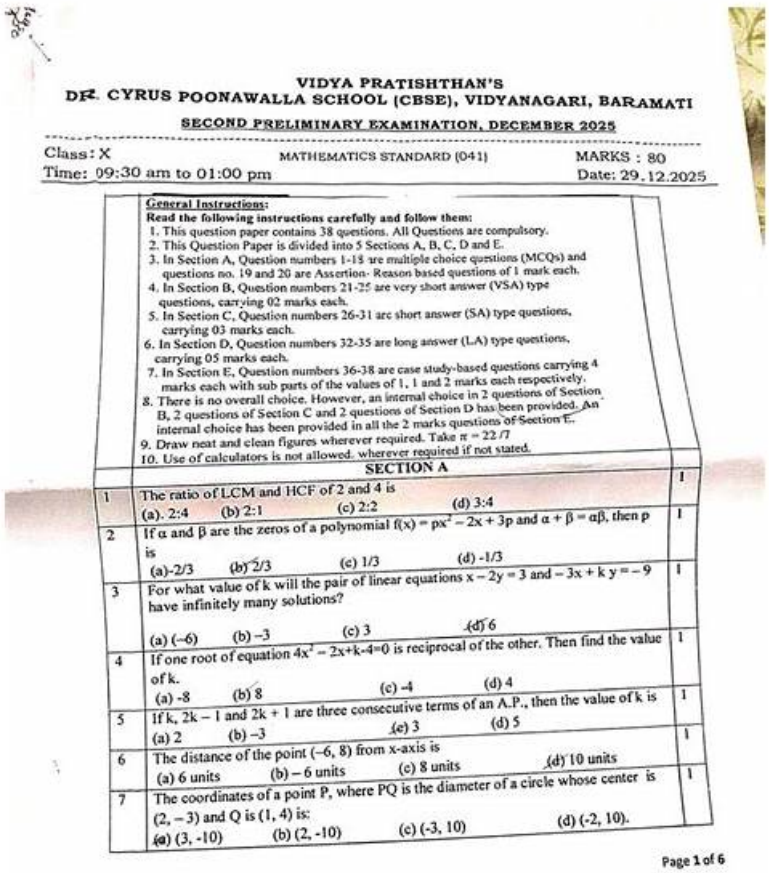

VIDYA PRATISHTHAN'S
DR. CYRUS POONAWALLA SCHOOL (CBSE), VIDYANAGARI, BARAMATI
SECOND PRELIMINARY EXAMINATION, DECEMBER 2025

Class: X | MATHEMATICS STANDARD (041) | MARKS : 80
Time: 09:30 am to 01:00 pm | Date: 29.12.2025

General Instructions:
Read the following instructions carefully and follow them:
1. This question paper contains 38 questions. All Questions are compulsory.
2. This Question Paper is divided into 5 Sections A, B, C, D and E.
3. In Section A, Question numbers 1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion- Reason based questions of 1 mark each.
4. In Section B, Question numbers 21-25 are very short answer (VSA) type questions, carrying 02 marks each.
5. In Section C, Question numbers 26-31 are short answer (SA) type questions, carrying 03 marks each.
6. In Section D, Question numbers 32-35 are long answer (LA) type questions, carrying 05 marks each.
7. In Section E, Question numbers 36-38 are case study-based questions carrying 4 marks each with sub parts of the values of 1, 1 and 2 marks each respectively.
8. There is no overall choice. However, an internal choice in 2 questions of Section B, 2 questions of Section C and 2 questions of Section D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
9. Draw neat and clean figures wherever required. Take $\pi = 22/7$
10. Use of calculators is not allowed. wherever required if not stated.

SECTION A

1	The ratio of LCM and HCF of 2 and 4 is (a). 2:4 (b) 2:1 (c) 2:2 (d) 3:4	1
2	If α and β are the zeros of a polynomial $f(x) = px^2 - 2x + 3p$ and $\alpha + \beta = \alpha\beta$, then p is (a)-2/3 (b) 2/3 (c) 1/3 (d) -1/3	1
3	For what value of k will the pair of linear equations $x - 2y = 3$ and $-3x + ky = -9$ have infinitely many solutions? (a) (–6) (b) –3 (c) 3 (d) 6	1
4	If one root of equation $4x^2 - 2x+k-4=0$ is reciprocal of the other. Then find the value of k. (a) -8 (b) 8 (c) -4 (d) 4	1
5	If k, 2k – 1 and 2k + 1 are three consecutive terms of an A.P., then the value of k is (a) 2 (b) –3 (c) 3 (d) 5	1
6	The distance of the point (–6, 8) from x-axis is (a) 6 units (b) – 6 units (c) 8 units (d) 10 units	1
7	The coordinates of a point P, where PQ is the diameter of a circle whose center is (2, – 3) and Q is (1, 4) is: (a) (3, -10) (b) (2, -10) (c) (-3, 10) (d) (-2, 10).	1

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CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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 4	• 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 5	• 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.

CompTIA DataX Certification Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42
A data scientist needs to:
Build a predictive model that gives the likelihood that a car will get a flat tire.
Provide a data set of cars that had flat tires and cars that did not.
All the cars in the data set had sensors taking weekly measurements of tire pressure similar to the sensors that will be installed in the cars consumers drive.
Which of the following is the most immediate data concern?

- A. Multivariate outliers
- B. Granularity misalignment
- C. Lagged observations
- D. Insufficient domain expertise

Answer: B

Explanation:
Granularity misalignment refers to a mismatch between the level of detail in the predictor variables and the event being predicted. In this case, flat tires are likely discrete, infrequent events, while tire pressure is measured weekly. If the prediction model is trying to link a specific tire pressure value to a binary outcome (flat tire: yes/no), and the timing doesn't align precisely, the predictor variable (pressure) may not be granular enough to accurately associate with the event.
Why the other options are incorrect:
* B: While outliers can exist, they are not the most immediate concern given the time-series nature of the data.
* C: While domain expertise is helpful, it doesn't directly address the data structure issue.
* D: Lagged observations can be engineered in modeling but aren't the primary problem here.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 3.1 (Data Granularity):"Granularity misalignment occurs when the temporal or spatial resolution of features does not align with the prediction target."
* Data Science Process Guide, Section 2.3:"Predictive performance can suffer when temporal mismatch exists between observations and outcomes. Granularity issues must be resolved prior to modeling."
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NEW QUESTION # 43
Which of the following techniques enables automation and iteration of code releases?

- A. Markdown
- B. Virtualization
- C. Code isolation
- D. CI/CD

Answer: D

Explanation:
CI/CD (Continuous Integration / Continuous Deployment) is a DevOps methodology that automates the building, testing, and deployment of code. It allows teams to iteratively release updates and improvements in a reliable and scalable manner.
Why the other options are incorrect:
* A: Virtualization provides environment emulation but doesn't manage code releases.
* B: Markdown is a documentation tool - unrelated to deployment automation.
* C: Code isolation refers to modular programming, not automation pipelines.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 5.3:"CI/CD pipelines streamline model deployment through automation, allowing continuous integration and delivery of updates."
* DevOps for Data Science, Chapter 4:"CI/CD supports fast and reliable code iterations by automatically testing and deploying to production environments."
-

NEW QUESTION # 44
Which of the following distance metrics for KNN is best described as a straight line?

- A. Cosine
- B. Euclidean
- C. Manhattan
- D. Radial

Answer: B

Explanation:
Euclidean distance is the most intuitive distance metric. It measures the shortest "straight-line" distance between two points in Euclidean space. This is typically used in KNN and clustering when features are continuous and appropriately scaled.
Why the other options are incorrect:
* A: "Radial" isn't a standard distance metric; may refer vaguely to radial basis functions.
* C: Cosine measures the angle (orientation) between vectors - not straight-line distance.
* D: Manhattan distance sums the absolute differences across dimensions - visualized as block-like (taxicab) paths, not direct lines.

Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 4.4:"Euclidean distance is the default metric in KNN for measuring straight-line proximity in feature space."
* Data Mining Techniques, Chapter 3:"Euclidean distance represents the shortest path between two points and is widely used in distance-based learning algorithms."
-

NEW QUESTION # 45
Which of the following explains back propagation?

- A. The passage of accuracy backward through a neural network to update weights and biases
- B. The passage of convolutions backward through a neural network to update weights and biases
- C. The passage of nodes backward through a neural network to update weights and biases
- D. The passage of errors backward through a neural network to update weights and biases

Answer: D

Explanation:
Backpropagation (short for "backward propagation of errors") is the fundamental algorithm for training neural networks. It involves computing the error at the output and propagating it backward through the network to update weights and biases via gradient descent.
Why the other options are incorrect:
* A: Convolutions are specific to CNNs and are not propagated in this manner.
* B: Accuracy is an evaluation metric, not used in weight updates.
* C: Nodes are structural elements, not passed backward.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.3:"Backpropagation passes the error backward from the output layer to the input layer to adjust weights using gradient-based optimization."
* Deep Learning Textbook, Chapter 6:"The backpropagation algorithm is essential for computing gradients of the loss function with respect to each weight."
-

NEW QUESTION # 46
A data analyst wants to find the latitude and longitude of a mailing address. Which of the following is the best method to use?

- A. Geocoding
- B. Imputing
- C. Binning
- D. One-hot encoding

Answer: A

Explanation:
Geocoding is the process of converting addresses (like "1600 Amphitheatre Parkway, Mountain View, CA") into geographic coordinates (latitude and longitude), which is essential for spatial data analysis and mapping.
Why other options are incorrect:
* A: One-hot encoding is for converting categorical variables into binary vectors.
* B: Binning is for grouping continuous variables into categories.
* D: Imputing fills in missing data values, unrelated to geographic location retrieval.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 6.3:"Geocoding is a technique to convert textual location data into coordinate-based data for geographic analysis."
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NEW QUESTION # 47
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