

MA: Mathematics

Q.No. 1 The Cauchy problem $yu_x + xu_y = x$ with $u(x, 1) = 2x$, when solved using its characteristic equations with an independent variable t , is found to admit of a solution in the form $x = \frac{3}{2}se^t - \frac{1}{2}se^{-t}$, $y = e^t$, $u = f(s, t)$. Then $f(s, t) =$

- (A) $\frac{3}{2}se^t + \frac{1}{2}se^{-t}$
- (B) $\frac{1}{2}se^t + \frac{3}{2}se^{-t}$
- (C) $\frac{1}{2}se^t - \frac{3}{2}se^{-t}$
- (D) $\frac{3}{2}se^t - \frac{1}{2}se^{-t}$

Answer: (A)

Q.No. 2 Let $X_1, X_2, \dots, X_n (n \geq 2)$ be a random sample from a $N(\theta, \theta)$ population, where $\theta > 0$, and let $W = \frac{1}{n} \sum_{i=1}^n X_i^2$. Then the maximum likelihood of θ is

- (A) $\frac{1}{2} + \frac{1}{2}\sqrt{1 - 4W}$
- (B) $\frac{1}{2} + \frac{1}{2}\sqrt{1 + 4W}$
- (C) $\frac{1}{2} + \frac{1}{2}\sqrt{1 - 4W}$
- (D) $\frac{1}{2} + \frac{1}{2}\sqrt{1 + 4W}$

Answer: (D)

Q.No. 3 For a linear programming problem, which one of the following statements is FALSE?

- (A) If a constraint is an equality, then the corresponding dual variable is unrestricted in sign
- (B) Both primal and its dual can be infeasible
- (C) If primal is unbounded, then its dual is infeasible
- (D) Even if both primal and dual are feasible, the optimal values of the primal and the dual can differ

Answer: (D)

Q.No. 4 Let $f : X \rightarrow Y$ be a continuous map from a Hausdorff topological space X to a metric space Y . Consider the following two statements: P: f is a closed map and the inverse image $f^{-1}(y) = \{x \in X : f(x) = y\}$ is compact for each $y \in Y$. Q: For every compact subset $K \subset Y$, the inverse image $f^{-1}(K)$ is a compact subset of X . Which one of the following is true?

- (A) Q implies P but P does NOT imply Q
- (B) P implies Q but Q does NOT imply P

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Table of Contents Gate Sample Papers

1. Understanding the eBook Gate Sample Papers
 - The Rise of Digital Reading Gate Sample Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gate Sample Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gate Sample Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gate Sample Papers
 - Personalized Recommendations
 - Gate Sample Papers User Reviews and Ratings
 - Gate Sample Papers and Bestseller Lists

5. Accessing Gate Sample Papers Free and Paid eBooks
 - Gate Sample Papers Public Domain eBooks
 - Gate Sample Papers eBook Subscription Services
 - Gate Sample Papers Budget-Friendly Options
6. Navigating Gate Sample Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Gate Sample Papers Compatibility with Devices
 - Gate Sample Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gate Sample Papers
 - Highlighting and Note-Taking Gate Sample Papers
 - Interactive Elements Gate Sample Papers
8. Staying Engaged with Gate Sample Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gate Sample Papers
9. Balancing eBooks and Physical Books Gate Sample Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gate Sample Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gate Sample Papers
 - Setting Reading Goals Gate Sample Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gate Sample Papers
 - Fact-Checking eBook Content of Gate Sample Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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