

Set- D

1. If a system of three forces acting on a rigid body is represented in magnitude, direction of line of action by the side of a triangle, taken in order, then the body will
 (A) be in equilibrium
 (B) move along the smallest side
 (C) move along the largest side
 (D) be acted upon by a couple
2. If $\begin{vmatrix} x+a & b & c \\ a & -x+b & c \\ a & b & x+c \end{vmatrix} = 0$, then x equal to
 (A) $a+b+c$
 (B) $-(a+b+c)$
 (C) $0, a+b+c$
 (D) $0, -(a+b+c)$
3. Suppose that Y has the moment generating function $M_Y(t) = \frac{e^t}{4-3e^t}$, $t < -\ln(0.75)$
 Then the variance of Y is
 (A) 12
 (B) 28
 (C) 4
 (D) 24
4. The amplitude of a particle executing S.H.M. is 20 cm and time period is 1 s. The maximum velocity is
 (A) $10\pi \text{ cm/s}$
 (B) $20\pi \text{ cm/s}$
 (C) $30\pi \text{ cm/s}$
 (D) $40\pi \text{ cm/s}$
5. If the vectors $(0, 1, a)$, $(1, a, 1)$, and $(a, 1, 0)$ of a vector space $V_3(\mathbb{R})$ are linearly dependent, then the values 'a' are
 (A) 1, 2, 3
 (B) $0, \pm\sqrt{3}$
 (C) $0, \pm i\sqrt{2}$
 (D) $0, 3 \pm \sqrt{2}$
6. The partial differential equation on eliminating the arbitrary function f from the equation $x + y + z = f(x^2 + y^2 + z^2)$ is
 (A) $y = e^{-x} \cos x$
 (B) $y = e^{-x} \sin x$
 (C) $y = \sin x$
 (D) $y = e^{-x}(\cos x + \sin x)$
7. The number of generators of the group $(\mathbb{Z}_{200}, +)$ of integers modulo 200 is
 (A) 120
 (B) 80
 (C) 100
 (D) 60

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Table of Contents Msc Mathematics Question Papers

1. Understanding the eBook Msc Mathematics Question Papers
 - The Rise of Digital Reading Msc Mathematics Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Msc Mathematics Question 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 Msc Mathematics Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msc Mathematics Question Papers
 - Personalized Recommendations

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