

BITSAT 2023 Sample Paper

MATHEMATICS

- The equation $y = \sqrt{3}x$, $y = 1$ are the sides of
 - an equilateral triangle
 - a right angled triangle
 - an isosceles triangle
 - an obtuse angled triangle
- The tangents to the circle $x^2 + y^2 = 169$ at the points $(5, 12)$ and $(-5, -12)$ are
 - parallel
 - at right angles
 - inclined at an angle of 45°
 - inclined at an angle of 60°
- If the direction cosines of a straight line are $\langle k, k, k \rangle$, then
 - $k > 0$
 - $0 < k < 1$
 - $k = 1$
 - $k = \frac{1}{\sqrt{3}}$ or $-\frac{1}{\sqrt{3}}$
- Angle between the straight line $\frac{x-1}{2} = \frac{y+3}{-1} = \frac{z-5}{2}$ and the plane $4x - 2y + 4z = 9$ is
 - 60°
 - 90°
 - 45°
 - 30°
- The number of tangents to the circle $x^2 + y^2 - 2x + 4y = 0$ through the point $(-1, 2)$ is
 - 1
 - 2
 - 0
 - none of these
- The distance between the lines $5x - 12y + 65 = 0$ and $5x - 12y - 39 = 0$ is
 - 2
 - 8
 - 2
 - none of these
- Radius of the sphere through the points $(4, 3, 0)$, $(0, 4, 3)$, $(0, 5, 0)$ and $(4, 0, 3)$ is
 - 7
 - 5
 - $\frac{7}{5}$
 - none of these
- The medians AD and BE of a triangle with vertices at A $(0, b)$, B $(0, 0)$ and C $(a, 0)$ are perpendicular to each other if
 - $b = \sqrt{2}a$
 - $a = \sqrt{2}b$
 - $b = \sqrt{-2}a$
 - $a = \pm \sqrt{2}b$
- The straight lines $x + y = 0$, $3x + y - 4 = 0$, $x + 3y - 4 = 0$, form a triangle which is
 - isosceles
 - equilateral
 - right angled
 - none of these
- If the two variables x and y have a perfect correlation (direction indirect), then they may be connected by a relation of the type
 - $xy = a^2$
 - $\frac{a}{x} + \frac{b}{y} = 1$
 - $\frac{x}{a} + \frac{y}{b} = 1$
 - none of these
- 25 % of the items of a data are less than 35 and 25% of the items are more than 75. Q. D of the data is
 - 55
 - 20
 - 35
 - 75
- The line passing through $(1, 1)$ and parallel to the line $2x - 3y + 5 = 0$ is
 - $3x + 2y = 5$
 - $2x - 3y + 1 = 0$
 - $3x - 2y = 1$
 - $2x + 3y = 5$
- The area of the triangle with vertices at the points $(a, b + c)$, $(b, c + a)$, $(c, a + b)$ is
 - 0
 - $a + b + c$
 - $ab + bc + ca$
 - none of these
- Maximum and minimum magnitudes of resultant of two forces acting at a point are 18 and 4. The magnitudes of the two forces are
 - 11 and 7
 - 22 and 14
 - 9 and 2
 - none of these

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Table of Contents Sample Paper Bitsat Fiitjee

1. Understanding the eBook Sample Paper Bitsat Fiitjee
 - The Rise of Digital Reading Sample Paper Bitsat Fiitjee
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Paper Bitsat Fiitjee
 - 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 Sample Paper Bitsat Fiitjee
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Paper Bitsat Fiitjee
 - Personalized Recommendations
 - Sample Paper Bitsat Fiitjee User Reviews and Ratings
 - Sample Paper Bitsat Fiitjee and Bestseller Lists
5. Accessing Sample Paper Bitsat Fiitjee Free and Paid eBooks
 - Sample Paper Bitsat Fiitjee Public Domain eBooks
 - Sample Paper Bitsat Fiitjee eBook Subscription Services
 - Sample Paper Bitsat Fiitjee Budget-Friendly Options
6. Navigating Sample Paper Bitsat Fiitjee eBook Formats

- ePub, PDF, MOBI, and More
- Sample Paper Bitsat Fiitjee Compatibility with Devices
- Sample Paper Bitsat Fiitjee Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Paper Bitsat Fiitjee
 - Highlighting and Note-Taking Sample Paper Bitsat Fiitjee
 - Interactive Elements Sample Paper Bitsat Fiitjee
- 8. Staying Engaged with Sample Paper Bitsat Fiitjee
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Paper Bitsat Fiitjee
- 9. Balancing eBooks and Physical Books Sample Paper Bitsat Fiitjee
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Paper Bitsat Fiitjee
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Paper Bitsat Fiitjee
 - Setting Reading Goals Sample Paper Bitsat Fiitjee
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Paper Bitsat Fiitjee
 - Fact-Checking eBook Content of Sample Paper Bitsat Fiitjee
 - 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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