

# 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  $45^\circ$
  - inclined at an angle of  $60^\circ$
- 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
  - $60^\circ$
  - $90^\circ$
  - $45^\circ$
  - $30^\circ$
- 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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