

ECAT Mathematics Chapter 20 Analytic Geometry

Sr	Questions	Answers Choice
1	The points (-1,3), (3,0) are the vertices of:	A. Right-angled triangle B. Isosceles triangle C. Equilateral triangle D. square
2	The medians of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero
3	The distance of a point (x cos θ , x sin θ) from origin is:	A. x B. x tanθ Ctanθ Dcotθ
4	The length of perpendicular from $(3,1)$ to the line $4x + 3y + 20 = 0$ is:	A. 7 B. 5 C. 11 D. 12
5	If points (5 , 5), (10 , x) and (-5 , 1) are collinear, x =	A. 5 B. 3 C. 9 D. 7
6	The distance from the point $P(3,4)$ to the line $y = 2x - 3$ is:	A. √5 B. √3 C. 2√3 D. 1/√5
7	Shifting origin to (-4,-6), the new coordinates of (-6,-8) are:	A. (-1,2) B. (-2,-2) C. (1,-2) D. (32)
8	If the points (a,b) , (x,y) and $(a-x, b-y)$ are collinear, then ay =	A. bx B. b-y C. a-x D. x
9	The points (5,2),(-2,3),(-3,-4) and (4,-5) are the vertices of:	A. rhombus B. Parallelogram C. rectangle D. square
10	Axes remain parallel to the old axes, in:	A. Translating of axes B. rotation of axes C. Translation and rotation of axes D. None of these
11	The equation of the line through (-8, 5) having slope undefined is:	A. y + 8 = 0 B. y = 8 C. y = x + 8 D. x + 8 = 0
12	In \Box ABC the mid points of AB and AC are (3,5) and -3,-1) respectively, then the length of the side BC is:	A. 15 B. 10 C. 30 D. 20
13	The quadrilateral with the vertices (-3,-2), (2,-1), (3,4) and (-2,3) is a:	A. Square B. Rectangle C. rhombus D. parallelogram
14	The points A, B and C are said to be collinear if they:	A. be on same line B. have same slope C. Lie on a same plane D. options a & b
15	The two lines $x + y = 0$ and $2x - y + 3 = 0$ intersect at the point:	A. (-1,1) B. (2,3) C. (1,3) D. (-1,2)

16	If (x,y) are the coordinates of a point P, then the first number of the ordered pair is called:	A. Ordinate B. Abscissa C. quadrant D. Cartesian
17	The two lines $5x + 7y = 35$ and $3x - 7y = 21$, intersect at the point:	A. (7,5) B. (1,2) C. (2,7) D. (7,0)
18	The two vertices of a triangle are (-2,4)and (5,4). If its centroid is (5,6), then third vertex is:	A. (-10,12) B. (12,-10) C. (12,10) D. (10,12)
19	The cartesian system of coordinates was introduced by:	A. Eulaer B. Euclid C. Descrates D. MacIream
20	In translation of axes,is shifted to another point in the plane.	A. a-axis B. y-axis C. origin D. Point