

ECAT (Pre-Eng) Mathematics Chapter 20 Analytic Geometry

Sr	Questions	Answers Choice
1	The distance from the point P(6,-1) to the line $6x - 4x + 9 = 0$ is:	A. 5/7 B. √52/7 C. 2/48 D. 49 /√52
2	The medians of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero
3	Shifting origin to (1,-2), the new coordinates of (4,5) are:	A. (3,7) B. (5,3) C. (-3,7) D. (3,-7)
4	The cartesian system of coordinates was introduced by:	A. Eulaer B. Euclid C. Descrates D. MacIream
5	The slope of the line from B (2,-3) through A (0,3) is:	A3 B. 1/3 C. 0 D. undefined
6	The points (-1,3), (3,0) are the vertices of:	A. Right-angled triangle B. Isosceles triangle C. Equilateral triangle D. square
7	If points (5 , 5), (10 , x) and (-5 , 1) are collinear, x =	A. 5 B. 3 C. 9 D. 7
8	The distance between the parallel lines $3x - 4y + 3 = 0$ and $3x - 4y + 7 = 0$ is:	A. 2/3 B. 9/13 C. 4/5 D. 7/12
9	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 & mp; b
10	x-axis divides the line segment joining points (2,-3) and (5,6) in the ratio:	A. 2:1 B2:1 C. 1:2 D1:2
11	Shifting origin to (-3,2), the new coordinates of (-6,9) are:	A. (-9,7) B. (3,7) C. (-3,7) D. (3,-7)
12	In translation of axes,is shifted to another point in the plane.	A. a-axis B. y-axis C. origin D. Point
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	Three points (-2,2) (8,-2) and (-4,3) are vertices of a :	A. Isosceles triangle B. right-angled triangle C. Equilateral trainagle D. Rectangle
15	Bisectors of angles of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero

16	The distance of a point (x cos θ , x sin θ) from origin is:	A. x B. x tanθ Ctanθ Dcotθ
17	If the line is parallel to they y-axis, then m is said to be:	A. zero B. undefined C. 1/2 D1
18	If points (-1, h), (3,2) and (7,3) are collinear then h=	A. 3 B. 4 C. 0 D. None of these
19	The points (3,1), (-2,-3) and (2,2) are the vertices of :	A. Equilateral triangle B. Isosceles triangle C. right -angled triangle D. rhombus
20	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