

ECAT Mathematics Chapter 20 Analytic Geometry

Sr	Questions	Answers Choice
1	Bisectors of angles of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero
2	The length of perpendicular from (3,1) to the line $4x + 3y + 20 = 0$ is:	A. 7 B. 5 C. 11 D. 12
3	The distance from the point P(6,-1) to the line $6x - 4x + 9 = 0$ is:	A. 5/7 B. $\sqrt{52}/7$ C. 2/48 D. $49/\sqrt{52}$
4	The length of perpendicular form(-2,3) to the line $y=2x-3$ is:	A. $5\sqrt{2}$ B. 6 C. $2\sqrt{5}$ D. 7.5
5	The in-centre of triangle whose vertices are (0,0), (5,12) and (16,12) is:	A. (9,7) B. (2,7) C. (9,2) D. (7,9)
6	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
7	The distance between lines $3x + 4y = 9$ and $6x + 8y = 15$ is:	A. 2/3 B. 3/10 C. 8 D. 6/5
8	The distance between two parallel lines $2x - 5y + 13 = 0$ and $-2x + 5y - 6 = 0$ is:	A. $\sqrt{29}$ B. $8/\sqrt{29}$ C. $7/\sqrt{29}$ D. $29\sqrt{7}$
9	The slope of the line from B (2,-3) through A (0,3) is:	A. -3 B. 1/3 C. 0 D. undefined
10	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)
11	In $\square ABC$ 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
12	If points (-1 , h), (3,2) and (7,3) are collinear then h=	A. 3 B. 4 C. 0 D. None of these
13	The points (-1,3), (3,0) are the vertices of:	A. Right-angled triangle B. Isosceles triangle C. Equilateral triangle D. square
14	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
15	If points A (6,-1), B (1,3) and C (x,8) are such that AB=BC, then x =	A. 3,5 B. -3,5 C. 3,-5 D. -3,-5

16	Three points $(-2,2)$ $(8,-2)$ and $(-4,3)$ are vertices of a :	A. Isosceles triangle B. right-angled triangle C. Equilateral triangle D. Rectangle
17	The points $(a,0)$, $(0,b)$ and $(3a, -2b)$ are:	A. Collinear B. Vertices of isosceles triangle C. corner of a right-angled triangle D. None of these
18	In translation of axes, _____ is shifted to another point in the plane.	A. a-axis B. y-axis C. origin D. Point
19	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
20	The points $(5,2)$, $(-2,3)$, $(-3,-4)$ and $(4,-5)$ are the vertices of:	A. rhombus B. Parallelogram C. rectangle D. square