

## Mathematics ECAT Pre Engineering Chapter 18 Analytic Geometry Online Test

Sr	Questions	Answers Choice
1	For all points (x,y) in fourth quadrant	A. x > 0 , y < 0 B. x > 0 , y > 0 C. x < 0 , y < 0 D. x < 0 , y > 0
2	The point P $(5,8)$ and the origin lie on the side of the line $3x+7y+15=0$	A. Same side B. P above and origin below C. Opposite side D. P below and origin above
3	The point R dividing externally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio $k_1$ : $k_2$ has the coordinates	
4	The inclination of a line parallel to x-axis is	
5	If the points (a,2b):(c,a+b):(2c-a,h) lie on the same line then	A. h=2a B. h=a+b C. h=ab D. h=ac
6	For all points (x,y) on x-axis	A. x is positive B. x is negative C. y = 0 D. y is negative
7	The st. lines whose direction cosines satisfy al + bm + cn = 0, fmn + gnl + hlm=0 are perpendicular if	
8	The point of concurrency of the medians of the $\Delta ABC$ is called its	A. Orthocenter B. Centriod C. Circumcentre D. Incentre
9	If k2x2 +2hxy- 4y2 =0 represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
10	Question Image	A. 0 B. 1
		D. undefined
11	The exterior angle of the interior angle C of he quadrilateral whose vertices are A(5,2),B(-2,3),C(-3,-4),D(4,-5) is	A. 30° B. 60° C. 45° D. 90°
12	The points (5, 2, 4)(6, -1, 2) and (8, -7, k) are collinear if k is equal to	A2 B. 2 C. 3 D1
13	Question Image	A. 1 B. 2 C. 3
14	The obtuse angle between lines = $-2$ and y = x +2 is	A. 120° B. 135° C. 150° D. 140°
15	If distance between (3,b) and (0,0) is 3 then b =	A. 3 C. 9 D. 0
16	The distance of the point (2, -3) from x-axis is	A2 B3 C. 2 D. 3
17	The distance between the points (2,3) and (3,2) is	A. 5 C. 2 D. 10
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18	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle     B. Equilateral triangle     C. Isosceles triangle     D. Scalene triangle
19	The foot of perpendicular from $(\alpha, oldsymbol{eta}, oldsymbol{\gamma})$ only y-axis is	A. ( <span style='font-family: " Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);'><i>α</i></span> , 0, 0)  B. (0, <span style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);'><i>β</i></span> , 0)  C. (0, 0, <span style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);'><ispan>, 0)  C. (0, 0, <span style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);'><ispan>)  D. (0, 0, 0)</ispan></span></ispan></span>
20	64.A point (x, y, z) moves parallel to xy plane. Which of the three variables x, y, z remain fixed?	A. z B. x C. y D. x and y