

ECAT Mathematics Chapter 20 Analytic Geometry Online Test

Sr	Questions	Answers Choice
1	The points (5, -4, 2), (4, -3, 1), (7, -6, 4), (8, -7, 5) are vertices of a	A. Square B. Parallelogram C. Rectangle D. Rhombus
2	The points (5, 0, 2), (2, -6, 0), (4, -9, 6) and (7, -3, 8) are vertices of a	A. Square B. Rhombus C. Rectangle D. Parallelogram
3	The equations of the line thro' the point (2, 3, -5) and equally inclined to the axis are	
4	The lines l_1 and l_2 intersect. The shortest distance between them is	A. Positive B. Negative C. Zero D. Infinity
5	The equation of the plane which bisects the line joining (2, 3, 4) and (6, 7, 8) is	A. $x + y + z - 15 = 0$ B. $x - y + z - 15 = 0$ C. $x - y - z - 15 = 0$ D. $x + y + z + 15 = 0$
6	The distance of the plane $2x - 3y + 6z + 14 = 0$ from the origin is	A. 14 B. 2 C. -2 D. 11
7	The point which divides the line joining the points (2, 4, 5) and (3, 5, -4) in the ratio -2 : 3 lies on	A. ZOZ plane B. XOY plane C. YOZ plane D. None of these
8	Question Image	A. 0 B. 2 C. 4/3 D. 5/3
9	The projections of a line segment on x, y, z axes are 12, 4, 3. The length and the direction cosines of the line segment are	
10	The st. lines whose direction cosines satisfy $al + bm + cn = 0$, $fmn + gnl + hlm = 0$ are perpendicular if	
11	Question Image	A. (3, 1, -2) B. (3, -2, 1) C. (2, -1, 3) D. (-1, -2, -3)
12	The distance of the points (3, 4, 5) from y-axis is	
13	The direction cosines of any normal to the xy-plane are	A. $\langle 1, 0, 0 \rangle$ B. $\langle 0, 1, 0 \rangle$ C. $\langle 1, 1, 0 \rangle$ D. $\langle 0, 0, 1 \rangle$
14	The direction cosines of a line equally inclined with co-ordinate axes are	
15	The points (5, 2, 4), (6, -1, 2) and (8, -7, k) are collinear if k is equal to	A. -2 B. 2 C. 3 D. -1
16	If l, m, n are the d.c.'s of a line, then	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 + m^2 + n^2 = 1$ C. $l + m + n = 1$ D. $l = m = n = 1$
17	Question Image	A. 0 D. undefined
18	Question Image	A. 9 B. -9 C. 0 D. 1

19	Question Image	A. 1 B. 0 C. 5 D. 2
20	Question Image	
21	Question Image	
22	Question Image	A. 0 B. 1 C. -1 D. undefined
23	The slope of y-axis is	A. 0 B. undefined C. 1
24	The slope of x-axis is	A. 0 B. undefined C. 1
25	Question Image	A. 0 B. 1 D. undefined
26	Question Image	A. 0 B. 1
27	Question Image	A. 0 B. 1
28	Question Image	A. 0 B. 1
29	Question Image	A. 0 B. 1
30	Question Image	