ECAT Mathematics Chapter 21 Linear Inequalities and Linear Programming Online Test

Sr	Questions	Answers Choice
1	If ab > 0 and a < 0, which of the following is negative?	A. b B. -b C. -a D. (a - b)²
2	If x < y, 2x = A, and 2y = B, then	A. A = B B. A < B C. A < x D. B < y
3	The point _____ is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
4	(2, 1) is in the solution of the inequality	A. 2x + y <u>></u> 7 B. x - y > 2 C. 3x + 5y < 6 D. 2x + y < 6
5	The point _____ is in the solution of the inequality 4x - 3y < 2	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
6	The point _____ is in the solution of the inequality 2x - 3y > 5	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
7	The point _____ is in the solution of the inequality 2x + 3y < 5	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
8	(1, 2) is in the solution of the inequality	A. 2x + y > 8 B. 2x + y <u><</u> 6 C. 2x - y > 1 D. 2x + 3y < 2
9	(0,0) is in the solution of the inequality	A. x + y > 3 B. x - y > 2 C. 3x + 2y > 5 D. 3x - 2y < 2
10	(0,1) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 5 D. x -2y < -5
11	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
12	(1, 1) is the in the solution of the inequality	A. 3x + 4y > 3 B. 2x + 3y < 2 C. 4x = 3y > 5 D. 2c - 3y > 2
13	The solution set of the inequality ax + by < c is	A. straight line B. half plane C. parabola D. none of these
14	The points (x, y) which satisfy a linear inequality in two variables x and y from its	A. domain B. range C. solution D. none of these
15	x = _____ is in the solution of 2x - 5 > 0	A. 0 B. 2 C. -2 D. 3

16	x = _____ is in the solution of 2x - 3 < 0	A. 2 B. -2 C. 3 D. 4
17	x = _____ is in the solution of 2x + 3 ≥ 0	A. 1 B. -2 C. -3 D. -4
18	x = _____ is in the solution of 2x + 3 < 0	A. 0 B. 2 C. -1 D. -2
19	x = -1 is in the solution of the inequality	A. x + 5 < 0 B. 2x + 3 <u><</u> 0 C. x > 0 D. 2x + 3 > 0
20	x = 1 is in the solution of the inequality	A. x + 1 > 0 B. x - 2 > 0 C. 3x - 1 < 0 D. x + 2 < 0
21	x = 0 is in the solution of the inequality	A. x > 0 B. 3x + 4 < 0 C. x + 3 < 0 D. x - 2 < 0
22	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
23	ax + by < c is linear inequality in	A. four variables B. three variables C. two variables D. one variable
24	2x + 3y > 4 is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
25	An expression involving any of the symbols <,>,≤ or ≥ is called	A. equation B. inequality C. linear equation D. identity
26	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
27	3x + 4 ≤ 0 is	A. not inequality B. equation C. identity D. inequality
28	3x + 4 < 0 is	A. inequality B. equation C. identity D. not inequality
29	3x + 4 ≥ 0 is	A. equation B. inequality C. identity D. none of these
30	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these