ECAT (Pre-Eng) Mathematics Chapter 21 Linear Inequalities & Linear Programming

Sr	Questions	Answers Choice
1	x = _____ is in the solution of 2x + 3 ≥ 0	A. 1 B. -2 C. -3 D. -4
2	2x + 3y > 4 is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
3	Which is in the solution set of 4x - 3y < 2	A. (3, 0) B. (4, 1) C. (1, 3) D. None
4	The set of ordered pairs (x,y) such that ax+ by < c, and (x,y) such that ax + by>0, are called	A. Half planes B. Boundary C. Linear Inequalities D. Feasible regions
5	There may be _____ feasible solution in the feasible region	A. Infinite B. Finite C. Defined D. None of above
6	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
7	The point _____ is in the solution of the inequality 2x - 3y > 5	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
8	The point (1,3) is one solution of	A. 3x + 5y > 29 B. 3x + 5y < 7 C. x + 2y < 4 D. x + 4y > 3
9	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these
10	If x < y, 2x = A, and 2y = B, then	A. A = B B. A < B C. A < x D. B < y
11	The corner point of the boundary lines, x-2y 2x + y = 2 is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
12	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
13	r + 3 >5 then which is true	A. r + 2 > 4 B. r + 2 < 4 C. r + 2 = 4 D. None
14	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
		A. -<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color:

15	The solution set of x < 4 is	rgb(255, 255, 248);">∞ < x < 4 B. -∞ > x > 4 C. -∞ < x < 2 D. -∞ > x > 2
16	A point of a solution region where two of its boundary lines intersect, is called	A. Boundary B. Inequality C. Half plane D. Vertex
17	s > t then	A. (s - t)²> (t - s) ² B. (s - t)²< (t - s) ² C. (s - t)²= (t - s) ² D. None
18	Sum of two quantities is at least 20 is denoted by	A. x +y =20 B. x +y≥ 20 C. x +y≠ 20 D. x +y≤20
19	The solution set of the inequality ax + by < c is	A. straight line B. half plane C. parabola D. none of these
20	ax + by < c is linear inequality in	A. four variables B. three variables C. two variables D. one variable