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

Sr	Questions	Answers Choice
1	Each point of the feasible region is called	A. Solution B. feasible solution C. Both a & b D. None
2	x = _____ is in the solution of 2x - 5 > 0	A. 0 B. 2 C. -2 D. 3
3	The graph of linear equation 2x + 3y = 10	A. Parabola B. Circle C. Hyperbola D. Straight line
4	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
5	x = _____ is in the solution of 2x + 3 < 0	A. 0 B. 2 C. -1 D. -2
6	The graph of y> 0 is the upper - half of:	A. y-axis B. x-axis C. 1st and 4th quandrant D. 2nd and 3rd quadrant
7	3x + 4 ≤ 0 is	A. not inequality B. equation C. identity D. inequality
8	The graph of y < 2 is the	A. Left half plane B. upper half plane C. Right half plane D. Lower half plane
9	Multiplying each side of an inequality by (-1) will:	A. Not effect B. Change the sign C. Become zero D. Not defined
10	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these
11	ab > 0 and a > 0 then	A. a > b B. a < b C. a = b D. None
12	(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
13	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
14	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
15	Maximum value of z =15x +20y subject to 3x+ 4y≤ 12,x,y≥ 0 is given by	A. 46 B. 60 C. 50 D. 70

16	The point _____ is in the solution of the inequality 2x + 3y < 5	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
17	3x + 4 < 0 is	A. inequality B. equation C. identity D. not inequality
18	(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
19	2x + 3y > 4 is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
20	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