


Mathematics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	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
2	1 radian = _____	A. 180° B. 90° C. 57.296° D. 60°
3	150° = _____	
4	x = _____ is in the solution of $2x - 5 > 0$	A. 0 B. 2 C. -2 D. 3
5	x = _____ is in the solution of $2x - 3 < 0$	A. 2 B. -2 C. 3 D. 4
6	x = _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4
7	22.5° = _____	
8	Question Image 	A. 30° B. 45° C. 60° D. 120°
9	120° = _____	
10	60° = _____	
11	45° = _____	
12	30° = _____	
13	x = _____ is in the solution of $2x + 3 < 0$	A. 0 B. 2 C. -1 D. -2
14	x = -1 is in the solution of the inequality	A. $x + 5 \leq 0$ B. $2x + 3 < 0$ C. $x \geq 0$ D. $2x + 3 \geq 0$
15	A right angle is the angle of measure	A. 90' B. 60° C. 60" D. 90°
16	x = 1 is in the solution of the inequality	A. $x + 1 \geq 0$ B. $x - 2 \geq 0$ C. $3x - 1 \leq 0$ D. $x + 2 \leq 0$
17	The 60th part of one minute is called	A. Degree B. Second C. Radian D. None of these
18	Three right angles is the angle of measure	A. 270° B. 180° C. 90° D. 270'
19	The measure of the angle subtended at the centre of the circle by an arc, whose length is equal to the radius of the circle is	A. 1° B. 1' C. 1"

	equal to the radius of the circle is	C. 1 D. 1 rad
20	If the circumference of a circle is divided into 360 congruent parts, the angle subtended by one part at the centre of the circle is	A. 1° B. $1'$ C. $1''$ D. 1 rad
21	Question Image	A. 360° B. 180° C. 90° D. None of these
22	$1^{\circ} =$ _____	A. 1.5 rad B. 0.5 rad C. 0.175 rad D. None of these
23	$1^{\circ} =$ _____	
24	$x = 0$ is in the solution of the inequality	A. $x > 0$ B. $3x + 4 \leq 0$ C. $x + 3 \leq 0$ D. $x - 2 \leq 0$
25	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
26	$1^{\circ} =$ _____	A. $360'$ B. $60''$ C. $60'$ D. $3600'$
27	$ax + by < c$ is linear inequality in	A. four variables B. three variables C. two variables D. one variable
28	One second is denoted by	A. 1° B. $1'$ C. $1''$ D. 1 rad
29	One minute is denoted by	A. 1° B. $1'$ C. $1''$ D. None of these
30	$2x + 3y > 4$ is a linear inequality in	A. one variable B. two variables C. three variables D. none of these