


## ECAT Pre Engineering Entry Test

Sr	Questions	Answers Choice
1	1 radian = _____	A. $180^\circ$ B. $90^\circ$ C. $57.296^\circ$ D. $60^\circ$
2	$150^\circ =$ _____	
3	$x =$ _____ is in the solution of $2x - 5 > 0$	A. 0 B. 2 C. -2 D. 3
4	$x =$ _____ is in the solution of $2x - 3 < 0$	A. 2 B. -2 C. 3 D. 4
5	$x =$ _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4
6	$22.5^\circ =$ _____	
7	Question Image 	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $120^\circ$
8	$120^\circ =$ _____	
9	$60^\circ =$ _____	
10	$45^\circ =$ _____	
11	$30^\circ =$ _____	
12	$x =$ _____ is in the solution of $2x + 3 < 0$	A. 0 B. 2 C. -1 D. -2
13	$x = -1$ is in the solution of the inequality	A. $x + 5 \leq 0$ B. $2x + 3 < 0$ C. $x \geq 0$ D. $2x + 3 \geq 0$
14	A right angle is the angle of measure	A. $90'$ B. $60^\circ$ C. $60''$ D. $90^\circ$
15	$x = 1$ is in the solution of the inequality	A. $x + 1 \geq 0$ B. $x - 2 \geq 0$ C. $3x - 1 \leq 0$ D. $x + 2 \leq 0$
16	The 60th part of one minute is called	A. Degree B. Second C. Radian D. None of these
17	Three right angles is the angle of measure	A. $270^\circ$ B. $180^\circ$ C. $90^\circ$ D. $270'$
18	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. $1^{\circ}$ B. $1'$ C. $1''$ D. 1 rad
19	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. $1^{\circ}$ B. $1'$ C. $1''$

one part at the centre of the circle is

- C. 1  
D. 1 rad

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Question Image

- A.  $360^\circ$   
B.  $180^\circ$   
C.  $90^\circ$   
D. None of these

21

$1^0 =$  \_\_\_\_\_

- A. 1.5 rad  
B. 0.5 rad  
C. 0.175 rad  
D. None of these

22

$1^0 =$  \_\_\_\_\_

23

$x = 0$  is in the solution of the inequality

- A.  $x > 0$   
B.  $3x + 4 \leq 0$   
C.  $x + 3 \leq 0$   
D.  $x - 2 \leq 0$

24

The real numbers which satisfy an inequality form its

- A. solution  
B. coefficient  
C. domain  
D. range

25

$1^0 =$  \_\_\_\_\_

- A.  $360'$   
B.  $60''$   
C.  $60'$   
D.  $3600'$

26

$ax + by < c$  is linear inequality in

- A. four variables  
B. three variables  
C. two variables  
D. one variable

27

One second is denoted by

- A.  $1^{\sup>0\sup>}$   
B.  $1'$   
C.  $1''$   
D. 1 rad

28

One minute is denoted by

- A.  $1^{\sup>0\sup>}$   
B.  $1'$   
C.  $1''$   
D. None of these

29

$2x + 3y > 4$  is a linear inequality in

- A. one variable  
B. two variables  
C. three variables  
D. none of these

30

One degree is denoted by

- A.  $1^{\sup>0\sup>}$   
B.  $1'$   
C.  $1''$   
D. 1 rad