

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	If $4 - x > 5$, then	A. $x > 1$ B. $x > -1$ C. $x < 1$ D. $x < -1$
2	If n is any positive integer ,t hen $2+4+6+.....+2n=$	A. 2^{n+1} B. $2^{n+1}+1$ C. $2^{n+1}+1$ D. $n(n+1)$
3	Every irrational number is	A. A real number B. A prime number C. A natural number D. An integer
4	Corner point of the system $x - y \leq 2, x + y \leq 4, 2x - y \leq 6, x \geq 0, y \geq 0$	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
5	Question Image	
6	Question Image	
7	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true
8	If $f(x) = x^2$ then $f(0)$ is	A. 0 B. 1 C. 2 D. none of these
9	Question Image	
10	Question Image	A. y/x B. x/y C. y/z D. None
11	How many types of an equation	A. 1 B. 3 C. 2 D. None
12	The range of the function $f : x \rightarrow y$ is defined by	A. $\{x \mid y = f(x) \forall x \in X \wedge y \in Y\}$ B. $\{(x,y) \mid y = f(x) \forall x \in X\}$ C. $\{y \mid y = f(x) \forall x \in X \wedge y \in Y\}$ D. Y
13	$w^{15} =$ _____	A. 0 B. 1 C. w D. $w^{2^{15}}$
14	If you are looking someone on the ground from the top of a hill the angle formed is called angle of _____;	A. Elevation B. Depression C. Right angle D. None off these
15	The coefficient of x^{18} in $(ax^4 - bx)^9$ after expansion is	A. $84a^3b^6$ B. $22a^3b^6$ C. $27a^4b^5$ D. $28a^3b^6$
16	Question Image	
17	Question Image	A. $(a+b)c = a \cdot c + bc$ B. $a+b = b+a$ C. $(a+b)+c = a+(b+c)$ D. $a(b+c) = ab+ac$
		A. Tends to a

18	A circle is a limiting case of an ellipse whose eccentricity	B. Tends to b C. Tends to 0 D. Tends to a + b
19	$(f \circ g)'(x) = f'(g(x))g'(x)$ is derivative by	A. Chain rule B. Reciprocal rule C. Power rule D. Product rule
20	The exponent of x in 10th term in the expansion of $(a+x)^n$	A. 10 B. 12 C. 11 D. 9