

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
2	The set {-1, 1} is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
3	f(x) = 1 is	A. identity function B. constant function C. linear function D. quadratic function
4	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. 1/5 B. 1/36 C. 1/7 D. 1/63
5	Question Image	A. Set of whole number B. Rational Numbers C. Complex numbers D. Whole numbers
6	The radius of the circle $x^2 + y^2 - 6x + 4y + 13 = 0$, is	A. 1 B. 2 C. 0 D. None of these
7	Question Image	
8	The exact degree value of the function sin-1($-\sqrt{3}/2$) is	A. 70 ^o B. 50 ^o C. 90 ^o D. 60 ^o
9	Question Image	
10	Question Image	
11	The ratio in which the line y- $x+ 2 = 0$ divides the line joining (3,-1) and (8,9) is	A. 2:3 B2:3 C. 3:2 D3:2
12	If A is a subset of B and B contains at least one element which is not an element of A, then A is said to be	A. Improper subset of B B. Super set of B C. Proper subset of B D. None of these
13	The distance between the points A(3,1) and B(-2,-4) is	A. 5 C. 25 D. 10
14	Question Image	
15	Question Image	
16	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
17	The proposition $S(n)$ for any $n \in N$ is only true if $k \in N$ and	A. S(k +1) is true B. S(1) is true and S(k+1) is true whenever S (k) is true C. S(k+1) is true whenever S (k) is true D. S(k) is true
		A. Rule of quotient of fraction

18	Question Image	B. Golden rule of fraction C. Rule for product of fraction D. Principle for equality of fraction
19	probability of a certain event is	A. 0 B1 C. 1 D. ∞
20	If x-2 and x-1 both are factors of x^3 -3 x^3 +2x-4p, then P must equal to	A. 1 B. 2 C. 0 D2