

## ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	A. real number B. complex number C. rational number D. irrational number
2	The equation of the circle with centre (h, k) and radius r is	A. (x+ h) <sup>2</sup> + (y+ k) <sup>2</sup> = r <sup>2</sup> B. (x+ h) <sup>2</sup> + (y - k) <sup>2</sup> = r <sup>2</sup> C. (x - h) <sup>2</sup> + (y+ k) <sup>2</sup> = r <sup>2</sup> D. (x - h) <sup>2</sup> + (y - k) <sup>2</sup> = r <sup>2</sup>
3	√11 is	A. an irrational number B. Rational number C. odd number D. Negative number
4	If 4 > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
5	If the exponent in the binomial expansion is 6, then the middle term is	A. 2nd B. 3rd C. 4th D. 5th
6	√25 is a number	A. Rational B. Irrational C. Natural D. Odd
7	Question Image	
8	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
9	The 6th term of the sequence 7,9,12,16is	A. 27 B. 32 C. 20 D. 19
10	For non-trival solution  A  is	A. A = 0 B. A <sup>t</sup> = 0 C.  A  = 0 D. None of these
11	The value of sin [ arc cos (-1/2)] is	
12	The vertex of the graph of the quadratic function $f(x) = x^2 - 10$ , is	A. (0, -10) B. (-10,0) C. (10,0) D. (0,10)
13	The equation of the circle with centre (-h, -k) and radius r is	A. (x +h) <sup>2</sup> + (y+k) <sup>2</sup> = r <sup>2</sup> B. (x +h) <sup>2</sup> + (y-k) <sup>2</sup> = r <sup>2</sup> C. (x -h) <sup>2</sup> + (y+k) <sup>2</sup> = r <sup>2</sup> D. (x -h) <sup>2</sup> + (y-k) <sup>2</sup> = r <sup>2</sup>
14	$x^2 + x - 6 = 0$ is	A. An equation B. An identity C. A polynomial D. None of these
15	Every prime number is also	A. Rational number B. Even number C. Irrational number

		D. Multiple of two numbers
Question Image		B. 6x + 2 + c C. 6x + x <sup>2</sup> + c D. 6x <sup>3</sup> + x <sup>2</sup> + x
Question Image		A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
Question Image		
Three dice are thrown	together. The probability of getting a total of at least 6 is	A. 103 / 108 B. 10 / 216 C. 93 / 108 D. None of these
What is the period of ta	ın 4/3 x =?	A. π/4 B. 4π/3 C. 7π/4 D. 3π/4