

## ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	A. (g,f) B. (-g,f) C. (g,-f) D. (-g,-f)
2	In R the right cancellation property w.r.t. addition is	
3	An integral of 1/x dx is:	A. 1/x <sup>2</sup> B. 1/-x <sup>2</sup> C. 1/lnx D. lnx
4	Question Image	A. 0 B. 1 C. 2 D. 3
5	Question Image	A1 B. 0 C. 1 D. undefined
6	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2 + q^2 + r^2 + 2pqr$ is equal to	A. 3 B. 1 C. 2 D1
7	Question Image	A. k3 B. 0 C. 3k D. k6
8	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true
9	When rational fraction is separated into partial fractions, the result is	A. an identity B. A fraction C. A partial sum D. Improper fraction
10	The number of combinations of 10 different objects taken 8 objects at a time is	A. 90 B. 45 C. 55 D. 50
11	For the equation $ x^2  +  x  - 6 = 0$ , the roots are	A. One and only one real number B. Real with sum one C. Real with sum zero D. Real with product zero
12	Name the property used in 4.1 + (-4.1) = 0	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
13	Question Image	
14	Two quadratic equation in which $xy$ term is missing and the coefficients of $x^2$ and $y^2$ are equal, give a linear equation by	A. Addition B. Subtraction C. Multiplication D. Division
15	Question Image	A. A <sup>-</sup> B. A <sup>t</sup> CA D. A
16	There are types of rational fraction	A. Three B. Four C. Five D. Two

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17	The two parts into which 57 should be divided so that their product is 782 are	A. 43,14 B. 34,23 C. 33,24 D. 44,13
18	If the sum of even coefficients in the expansion of (1+x)n is 128 then	A. n=7 B. n=9 C. n=8 D. None
19	Question Image	
20	If $A = [a_{ij}]$ is $(m \times n)$ matrix, then transpose of A is of the order	A. mxm B. mxn C. nxn D. nxm