

ECAT Pre General Science Mathematics Online Test

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Sr	Questions	Answers Choice
1	Question Image	A. 0 B4 D. none of these
2	If A and B are two matrices such that AB = B and BA = A, then A^2 + B^2 =	A. 2 AB B. 2 BA C. A + B D. AB
3	The solution set of trigonometric equation contains	A. one element B. two elements C. three elements D. Infinite elements
4	Question Image	
5	If the roots of ax^2 + bx + c =0 are equal in magnitude but opposite in sign, then	A. a = 0 B. b = 0 C. c = 0 D. None of these
6	In any triangle ABC,with usual notation $\alpha sin \beta$ =;	A. b sinαB. bsinβC. αsinαD. None of these
7	The angle between the vectors $\underline{\mathbf{u}} = 2\underline{\mathbf{i}} - \underline{\mathbf{i}} + \underline{\mathbf{k}}$ and $\underline{\mathbf{v}} = -\underline{\mathbf{i}} + \underline{\mathbf{i}}$ is:	A. 3π/2 B. 2π/3 C. 5π/6 D. π/3
8	Question Image	A. 30° B. 60° C. 45° D. None of these
9	If order of A is $m \times n$, then order of A^{t_i} is	A. mxm B. nxn C. mxn D. nxm
10	The function whose range consists of just one element is called	A. One-One FunctionB. Identity FunctionC. Onto FunctionD. Constant Function
11	The additive identity of real number is	A. 1 B. 2 C. 1/2 D. 0
12	A line joining two distinct points on a parabola is called	A. Axis B. Directrix C. Chord D. Tangent
13	(x3-1/x)12	A. 295 B. 495 C. 395 D. 722
14	The distance of the plane $2x - 3y + 6z + 14 = 0$ from the origin is	A. 14 B. 2 C2 D. 11
15	Question Image	A2x cos x ² B2x ² sin x ² Cx ² sin x D2x ² sin x x ² sin x
16	Question Image	

7	Question Image	A. 360° B. 180° C. 90° D. None of these
8	A fraction in which the degree of the numerator is less the degree of the denominator is called	A. PolynomialB. Proper fractionC. Rational fractionD. None
9	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
0	Tan 360° =	A1 B. 0 C. 1 D. Undefined