ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. -1 D. 2
2	(2.02)4 s equal to	A. 16 B. 16.6496 C. 17 D. 18
3	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60^o D. neither parallel nor perpendicular
4	Question Image	A. sec 3x + c B. - cosec 3x + c
5	System of linear equation is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
6	Question Image	A. K/6 B. 2K C. 3K D. 6K
7	if a_1 =3, d=7 and a_n =59 , then the number of terms in A.P is	A. 7 B. 9 C. 11 D. 13
8	∀a,b, c ε R ac = bc ⇒ a = b, c ≠ 0 is a	A. Symmetric property B. Cancellation property w.r.t multiplication C. Reflexive property D. Transitive property
9	21.256^{o}	A. 21^o15'21" B. 21^o20'56" C. 21^o25'1" D. 21^o25'6"
10	Multiplicative inverse of "1" is	A. +- 1 B. 0 C. 1 D. None of these
11	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
12	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
13	The set of even prime numbers is	A. {2,4,6,8,10} B. {2,4,6,8,10,12} C. {1,3,5,7,9} D. {2}
14	Period of Cotangent function is	A. π B. -π C. 0 D. -2π
15	Question Image	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to

		addition
16	The number of solution of the equation tan x + sec x = 2 cos x lying in the interval [0, 2π] is	A. 0 B. 1 C. 2 D. 3
17	If the roots of x^2+ ax + b = 0 are non-real, then for all real x, x^2+ ax + b is	A. Negative B. Positive C. Zero D. Nothing can be said
18	x = 0 is in the solution of the inequality	A. x > 0 B. 3x + 4 < 0 C. x + 3 < 0 D. x - 2 < 0
19	Which of the following is the definition of singleton	A. The objects in a set B. A set having no element C. A set having no subset D. None of these
20	Question Image	