

ECAT Mathematics MCQ's Test For Full Book

0	Overtine	Annuary Ober
Sr	Questions	Answers Choice
1	$d/dx (\cos x \sin x) =$	A. cos ² x - sin ² x B. 2cos ² x + sin ² x C. 2cos ² x - sin ² x D. 1 - sin ² x
2	In (x + iy) x is the known as	A. Imaginary part of complex number B. Real part of complex number C. Complex number D. None of above
3	A and B be two square matrices and if their inverse exist, the (AB) ⁻¹ =	A. A ⁻¹ B ⁻¹ B. AB ⁻¹ C. A ⁻¹ B D. B ⁻¹ A ⁻¹
4	The first three terms in the expansion of $(1 - x)^{-2}$ are	A. 1 - 2x + 3x ² B. 1 - 2x - 3x ² C. 1 + 2x + 3x ² D2 - 2x + 3x ²
5	If α , β are the roots of ax ² + bx + c = 0 and α + h, β + h are the roots of px ² + qx + r=0, then h =	
6	If S_r denotes the sum of the first r terms of a G.P., then S_n , $S_{2n^-}S_n$, $S_{3n^-}S_{2n}$ are in	A. A.P. B. G.P. C. H.P. D. None of these
7	Question Image	
8	If y=f(x) is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
9	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
10	The 7th term of the A.P 7,11,15,is	A. 24 B. 31 C. 26 D. 23
11	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
12	The function $\{f(x,y) y = ax^2 +bx+c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
13	Question Image	
14	Question Image	
15	The circular measure of the angle between the hands of a watch of 4 0'clock is	A. π/2 B. π/4 C. 2π/3 D. π/6
16	A polynomial P(x)has a factor (x-a)if P(a) =	A. a B. x C. 1 D. 0
17	The set of ordered pairs (x,y) such that $ax+by < c$, and (x,y) such that $ax+by>0$, are called	A. Half planes B. Boundary C. Linear Inequalities

		D. Feasible regions
8	Question Image	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
9	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
20	(a-1)-1 =	A. a-1 B. a Ca D. None of above