ECAT Pre General Science Mathematics Chapter 5 Matrics and Determinants Online Test

Sr	Questions	Answers Choice
1	Question Image	A. 9/4 B. 4/9 C. 1 D. None of these
2	Question Image	A. 2s² B. 2s³ C. s³ D. 3s³
3	Question Image	A. K/6 B. 2K C. 3K D. 6K
4	Let A is a 3 x 3 matrix and B is its adjoint matrix. If |B| = 64, then |A| =	
5	Question Image	A. 0 B. Independent of a C. Independent of b D. Independent of c
6	Question Image	A. 0 B. abc C. 1/abc D. None of these
7	Question Image	
8	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
9	Question Image	A. a = 4, b = 1 B. a = 1, b = -4 C. a = 0, b = 4 D. a = 2, b = 4
10	Question Image	
11	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
12	Question Image	A. 4A - 3I B. 3A - 4I C. A - I D. None of these
13	Question Image	A. A(α) - A(β) B. A(α) + A(β) C. A(<i style="text-align:

		center; ">α-<i style= text-align: center;">β) D. A(α+β)
14	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
15	The order of the matrix A is 3 x 2 and that of B is 2 x 3. The order of the matrix BA is	A. 3 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
16	Question Image	A. 0 B. 1 C. 2 D. 4
17	If the trace of matrix A is 5, then the trace of the matrix 3A is	A. 3/5 B. 5/3 C. 8 D. 15
18	If for the matrix A, $A^5 = I$, then A^{-1}=	A. A² B. A³ C. A D. None of above
19	Question Image	A. I B. |A| C. |A| I D. None of these
20	For a square matrix A, if $A = A^t$, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
21	If $A = [a_{ij}]$ is (m x n) matrix, then transpose of A is of the order	A. m x m B. m x n C. n x n D. n x m
22	We also the system of non-homogeneous linear equations by	A. a and b B. b and c C. c and a D. a, b and c
23	Trival solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
24	For non-trival solution |A| is	A. A = 0 B. A^t= 0 C. |A| = 0 D. None of these
25	For trival solution |A| is	A. A B. |A| is non zero C. A = 0 D. None of these
26	System of linear equations is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
27	An equation of the form ax + by = k is homogeneous linear equation when:	
28	Question Image	
29	Question Image	A. A B. -A C. A^t D. A⁻
30	Question Image	A. A⁻ B. A^t C. -A D. A