

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. $2x + 3$ B. $x^{2+2} + 3 + c$
2	Question Image	A. 2 B. 1 C. 5 D. 0
3	$\sin^{-1}(-x) =$	A. x B. -x C. $-\sin^{-1} x$ D. $\cos^{-1} x$
4	The distance between the parallel lines $3x - 4y + 3 = 0$ and $3x - 4y + 7 = 0$ is:	A. $\frac{2}{3}$ B. $\frac{9}{13}$ C. $\frac{4}{5}$ D. $\frac{7}{12}$
5	The area under the curve $y = \frac{1}{x^2}$ between $x = 1$ and $x = 4$ is:	A. -25 B. 0.75 C. -0.35 D. -10
6	The matrix $A = [a_{ij}]_{1 \times n}$ is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
7	The point (1,3) is one solution of	A. $3x + 5y > 29$ B. $3x + 5y < 7$ C. $x + 2y < 4$ D. $x + 4y > 3$
8	$i^{(4n+2)} =$ .....	A. 1 B. i C. -1 D. -i
9	Question Image	D. None of these
10	Let $a_1, a_2, a_3, a_4$ and $a_5$ be such that $a_1, a_2,$ and $a_3$ are in A.P., $a_2, a_3$ and $a_4$ are in G.P and $a_3, a_4$ and $a_5$ are in H.P. Then, $a_1, a_3$ and $a_5$ are in	A. G.P. B. A.P. C. H.P. D. None of these
11	Question Image	A. Zero matrix B. Diagonal matrix C. Column matrix D. Scalar matrix
12	The period of $\tan^{-1} x$ is _____	A. $2\pi$ B. $\pi$ C. $\frac{\pi}{2}$ D. $\frac{\pi}{4}$
		A. Infinite set

13	The set $\{a, b\}$ is	<p>B. Singleton set  C. Two points set  D. Empty set</p>
14	The product of the four fourth roots of unity is	<p>A. 0  B. 1  C. -1  D. None of these</p>
15	Range of $\sin x$ is _____	<p>A. <math>[-1, 1]</math>  B. <math>\mathbb{R}</math>  C. Negative real numbers  D. None of these</p>
16	Question Image <input type="text"/>	<p>A. 6, -12, -18  B. -6, 4, 9  C. -6, -4, -9  D. -6, 12, 18</p>
17	Write down the power set of $\{9, 11\}$	
18	Question Image <input type="text"/>	<p>A. 7  B. 5  C. 6  D. None of these</p>
19	Question Image <input type="text"/>	
20	Digit in the unit place of the number $183! + 3^{183}$	<p>A. 7  B. 6  C. 3  D. 0</p>