

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 3 C. 9 D. -3
2	Question Image	D. none of these
3	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
4	Domain of $\cos^{-1}x$ is	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
5	Question Image	
6	If $\pi \leq x \leq 2\pi$, then $\cos^{-1}(\cos x) =$	A. $\cos x$ B. $-x$ C. $1/x$ D. $-x$
7	Question Image	
8	If $y = 3x + 2\cos x$, then $dy/dx =$	A. $3-2 \sin x$ B. $3-t \sin x$ C. $3x^{\sup}2^{\sup} - 2\sin x$ D. $3(1-4 \sin x)$
9	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. $1/12$ B. $1/6$ C. $5/12$ D. $7/12$
10	Question Image	A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
11	Question Image	
12	Question Image	A. $15/23$ B. $7/15$ C. $7/8$ D. $15/7$
13	The square matrix A is skew Hermitian when $(A)' =$	A. A B. A' C. $-A$ D. A
14	Question Image	
15	Question Image	
16	Optimal solution is found by evaluation the objective function at	A. All point of feasible region B. Corner point C. Origin D. None
17	If a_1, r and a_n are the first term, common ratio and the n th term respectively of a G. P. then $a_n =$	A. $a^{\sub}1^{\sup}r^{\sub}n^{\sup}$ B. $a^{\sub}1^{\sup}r^{\sub}n-1^{\sup}$ C. $a^{\sub}1^{\sup}r^{\sub}n+1^{\sup}$ D. $a^{\sub}1^{\sup}r$
18	The set $\{1, -1, i, -i\}$	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication

19 Question Image

20 Question Image