

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20 D. 19
3	Question Image	A. 5 B. 10 C. 20 D. 30
4	The real number system contains.	A. Positive Numbers B. Negative numbers C. Zero D. (option a, b and c)
5	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
6	Question Image	
7	If $\sin(\pi\cos\theta) = \cos(\pi\sin\theta)$ , then which of the following is correct?	
8	The y intercepts and the slpe of the line expressed by line expressed by $3x - 2y + 6 = 0$ is	A. 3/2, -3 B. -3/3, -3/2 C. -3,-3/2 D. -3,-3
9	The general solution of $\tan 3x = 1$ is	
10	Question Image	C. $\ln f(x) + c$ D. $f(x) - c$
11	If $a = 2i + 2j$ , $b = 3i - j$ and $c = 4i + 5j$ , the $3b - a - 2c =$	A. $-i - 15j$ B. $i - 15j$ C. $i - 3j$ D. None of these
12	Arithmetic mean between a and b is	
13	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
14	Question Image	
15	Question Image	
16	How many arrangements of the letters of the word MATHEMATICS can be made	
17	Question Image	
18	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. Irrational numbers
19	If $y = x^m$ then $dy/dx$ equals:	A. $mx$ B. $x/m$ C. $mx^{m-1}$ D. $xm^{m-1}$
20	Question Image	