

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
2	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
3	$0! = \underline{\hspace{2cm}}$	A. 0 B. 1 C. 2 D. Not defined
4	If a,b,c are unit vectors then $ a + b ^2 + a - b ^2$	A. 4 B. 8ab C. 9cos D. 4(a,b)
5	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
6	The trigonometric equation contains..... trigonometric functions	A. At least one B. At most one C. Exactly one D. None
7	Question Image <input style="width: 500px; height: 15px;" type="text"/>	
8	Question Image <input style="width: 500px; height: 15px;" type="text"/>	A. 8 B. 1/8 C. 1/3 D. 2/3
9	Question Image <input style="width: 500px; height: 15px;" type="text"/>	A. -2x B. $x^{\sup>-3</sup>}$ D. $-2x^{\sup>3</sup>}$
10	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
11	An expression involving any of the symbols $<, >, \leq$ or \geq is called	A. equation B. inequality C. linear equation D. identity
12	Three dice are thrown together. The probability of getting a total of at least 6 is	A. 103 / 108 B. 10 / 216 C. 93 / 108 D. None of these
13	If $a^2 = b^2$ then	A. $a = b$ B. $a+b= 1$ C. $ a+b = 0$ D. None
14	The roots of $(x - a)(x - b) = ab x^2$ are always	A. Real B. Depends upon a C. Depends upon b D. Depends upon a and b
15	Question Image <input style="width: 500px; height: 15px;" type="text"/>	
16	If all members of a sequence are real numbers then it is called a	A. Series B. Function C. Real sequence D. Range
17	If $A = [a_{ij}]$ is $(m \times n)$ matrix then transpose of A is of the order	A. $m \times m$ B. $m \times n$ C. $n \times n$ D. $n \times m$

D. $n \times m$

18

Question Image

A. $1 + \tan^2 x + c$

B. $\tan x + c$

C. $-\tan x + c$

D. $\cot x + c$

19

The sum of co-efficient in $(1+x-3x^2)^{4163}$ is

A. 0

B. 1

C. -1

D. None

20

Question Image