

## ECAT Mathematics MCQ's Test For Pre General Science

Sr	Questions	Answers Choice
1	Question Image	
2	$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property <b>B. Transitive property</b> C. Symmetric property D. Additive property
3	$3/\pi = \dots\dots\dots$	A. $54.71$ <b>B. <math>21</math></b> C. $51$ <b>D. <math>29</math></b>
4	Question Image	
5	Question Image	A. $A^2 - 5A + 71 = 1$ B. $2A^2 - 3A + 71 = 0$ C. $A^2 - 5A + 1 = 0$ <b>D. <math>A^2 - 5A + 71 = 0</math></b>
6	Question Image	A. zero at x <b>B. differentiable at x</b> C. continuous at x D. none of these
7	$\sqrt{2} + \sqrt{3} + \sqrt{5} = (\sqrt{2} + \sqrt{3} + \sqrt{5})$ : this property is called	<b>A. associative property w.r.t addition</b> B. commutative property C. Closure property w.r.t addition D. Additive identity
8	Question Image	B. $a^x \ln a + c$ C. $a^x + c$ D. $x a^x + c$
9	A circle which touches one side of a triangle externally and the other two sides produced is called _____	A. In-circle B. Circum circle <b>C. Escribed circle</b> D. None of these
10	Question Image	
11	Question Image	
12	If $y = (7x + 9)^2$ , then $dy/dx$ equals:	<b>A. <math>98x + 126</math></b> B. $14x$ C. $14x + 18$ D. $14x + 81$
13	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplicative identity C. Associative law of multiplication <b>D. Multiplicative inverse</b>
14	Question Image	
15	Question Image	A. $A = C$ B. $A = B$ <b>C. <math>B = C</math></b> D. None of these
16	$x^4 - 3x^3 + 3x + 1 = 0$ is called _____	<b>A. Reciprocal equation</b> B. Exponential equation C. Radical equation D. None of these
17	If c is a constant, then $d/dx(c) =$	<b>A. 0</b> B. c C. cx D. 1
18	Question Image	<b>A. One-to-one and onto</b> B. One-to-one but not on to C. Onto but not one-to-one D. Neither one-to-one nor onto

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19	Number of terms in the expansion of $(a+x)^n$ is	A. $n - 1$ B. $n + 1$ C. $n + 2$ D. $n + 3$
20	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924

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