

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	If $3x^4 + 4x^3 + x^5$ is divided by $x+1$, which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
4	The probability that a person A will be alive 15 years hence is $\frac{5}{7}$ and the probability that another person B will be alive 15 years hence is $\frac{7}{9}$. Find the probability that both will be alive 15 years hence	A. $\frac{4}{63}$ B. $\frac{5}{9}$ C. $\frac{45}{49}$ D. None of these
5	$\sin^{-1} x =$	A. $\sin(\pi/2 - x)$ B. $\sin^{-1}(\pi/2 - x)$ C. $\pi/2 - \cos^{-1} x$ D. $\pi/2 + \cos^{-1} x$
6	$x^3 + 2x^2 - 3x + 5$ is _____	A. An equation B. A polynomial C. Proper rational fractions D. Improper rational fractions
7	Question Image	
8	Question Image	D. none of these
9	When the angle between the ground and the sun is 30° , flag pole casts a shadow of 40 m long. the height of the top of the flag is	A. 25m B. 23m C. 12m D. 29m
10	Question Image	
11	Question Image	A. 0 B. 1 D. undefined
12	What is the period of $5 \cot x = ?$	A. π B. $-\pi$ C. $\pi/2$ D. 2π
13	Question Image	A.
14	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these
15	Question Image	A. $n \leq 8/5$ B. $n \leq 5/8$ C. $ n \leq 8/5$ D. $ n \geq 8/5$
16	Question Image	A. $-\sin$ B. $\cos$ C. $\sin$ D. $-\cos$

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17	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
18	Question Image	
19	Question Image	A. $10^{10}C^{66}$ B. $10^{10}C^{55}$ C. $10^{10}C^{44}$ D. None
20	The order of the matrix A is 3 x 5 and that of B is 2 x 3. The order of the matrix BA is	A. 2 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2