

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Which of the following is the subset of all sets?	
2	Question Image	
3	The first three terms in the expansion of $(1 + x)^{-2}$ are	A. 1 - 2x + 3x ² B. 1 - 2x - 3x ² C. 1 + 2x + 3x ² D2 -2x + 3x ²
4	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
5	Question Image	
6	If Projvu = Projuv, then	A. Uand vare parallel B. u = v C. Uandvre perpendicular D. One ofuorv
7	The differential equation representing the family of curves $y = A \cos(x + B)$, where A, B are parameters, is	
8	cot <mark>$heta$= sin 2$heta$if$heta$=</mark>	
9	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B2/5 C7/5 D7/3
10	5 unbiased coins coins are tossed simultaneously. The probability of getting at least one head is	A. 1 / 32 B. 31 / 32 C. 1 / 16 D. None of these
11	The system of measurement in which the angle is measured in degrees, minutes and seconds is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
12	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
13	Question Image	A. sec 3x + c B cosec 3x + c
14	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
15	Question Image	A. 0 B. 1 D. none of these
16	Question Image	A. a ₁ + a ₂ B. a ² ₁ + a ² ₂
17	Question Image	A. Linear equation B. Quadratic equation C. Cubic equation D. None of these
18	Which one is not defined ∀n∈Z+	An! B. n! C. (-n)! D. n!+0!=n!+1
		A. A positive integer

19	O is	B. A negative integer C. A natural number D. An integer
20	If a,b c are sides of a triangle taken in order then a x b =	A. b x c B. b x a C. cxa D. Both a & D. Both a