

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	$\forall x,y,z \in R \text{ and } z \text{ 0,then}$	A. x > y ⇒ xz > yz B. x <y <="" xz="" yz<br="" ⇒="">C. x < y ⇒ xz > yz D. None of these</y>
2	The set of months in a year beginning with S.	A. {September, October, November} B. Singleton set C. Null set D. Empty set
3	Question Image	
4	For non-trival solution A is	A. A = 0 B. A ^t = 0 C. A = 0 D. None of these
5	Which of the following is factor of $p(x) = 2x3 + 3x2 + 3x + 2$?	A. x+1 B. 2x+1 C. 3x+1 D. 2x-1
6	If 2x ^{1/3} + 2x ^{-1/3} = 5, then x is equal to	A. 1 or -1 B. 2 or 1/2 C. 8 or 1/8 D. 4 or 1/4
7	Question Image	A. Imaginary B. Rational C. Irrational D. Real numbers
8	The third term of the sequence a _n = (-1) ⁿ⁻¹ (n-7) is	A. 8 B. 4 C4 D. 8
9	Question Image	
10	Question Image	
11	cos (180° - θ)=	A. sin <i style="text-align: center;">0</i> B cos <i style="text-align: center;">0</i> C sin <i style="text-align: center;">0</i> D. None of above
12	What is the 26th term of the sequence, if its general term is $a_n = \binom{-1}{n+1}^{n+1}$	A. 2 B. 26 C. 27 D. 1
13	How many arrangements of the letters of the word ADDING can be made	
14	If $f(x) = -x^3$ then $f(-2)$ is	A2 B4 C8 D. 8
15	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
16	If 0 = R, thenthe additive inverse of a is	A. 1/9 B. ^{1/-9} C. a Da
17	In any triangle ABC,with usual notation $\alpha sin \beta =;$	A. b sinα B. bsinβ C. αsinα

		D. None of these
18	The additive inverse of 0 is	A. 1 B1 C. 0 D. Does not exist
9	The angle of elevation of the top of a tree from a point 17 meters from is foot is 42^{\Box} The height of the tree is	A. 12m B. 21m C. 17m D. 15m
0	The approximate increase in the area of a circular disc if its diameter increased form 44cm to 44.4cm is	A. 0.4cm B. 8.8πcm C. 17.6 πcm D. 35.2πcm