

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
2	a >b, b >c ⇒a >c is a	A. Multiplicative propertyB. Additive propertyC. Trichotomy propertyD. Transitive property of inequality
3	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
4	Question Image	Acosec ² x Bsec ² x C cosec x cot x D. cosec x
5	Question Image	
6	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
7	Question Image	
8	Question Image	A. z is purely imaginary B. a is any complex number C. z is real D. None of these
9	The 5th term of (3a-2b) ⁻¹ is	A. 77b ² /a ⁵ B. 16b ² /243 a ⁵ C. 17b ⁴ /43a ⁵ D. 25b ³ /43a ⁵
10	The next term of the sequence 1, 2, 4, 7, 11, is.	A. 15 B. 16 C. 17 D. 18
11	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
12	Which of the following is a scalar	A. weight B. force C. speed D. momentum
13	If $n(X) = 18$, $n(X \cap Y) = 7$, $n(X \cup Y) = 40$ then $n(Y) =$	A. 1 B. 12 C. 5 D. 29
14	Let A and B be two sets. If every element of A is also an element of B then	
15	Question Image	A. 1 B. 2 C. 3 D. 4
16	The decimal fraction in which we have finite number of digits in its decimal part is called.	A. recurring decimal fraction B. Non terminating faction C. Non recurring fraction D. terminating decimal fraction

17	The transpose of a zero matrix is a	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
18	Question Image	A10 B. 10/7 C10/7 D7/10
19	The equation $(\cos p - 1)x^2 + x(\cos p) + \sin p = 0$ in the variable x, has real roots, then p can take any value in the interval	A. (0, 2 <i>π</i>>) B. (- <i>π</i> , -0) C. (0, <i>π</i>) D. None of these
20	What is the circular measure of the angle between the hands of a watch at 4 O'clock	