

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Question Image	A. 1/8 B. 1/2 C. 1/4 D. 1/6
4	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
5	Which conjunction is not true?	
6	Question Image	
7	√11 is	A. an irrational number B. Rational number C. odd number D. Negative number
8	Question Image	A. 28 / 81 B. 28 / 243 C. 81 / 28 D. 243 / 82
9	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. 1/5 B. 1/36 C. 1/7 D. 1/63
10	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
11	If A and B are two disjoint events then	A. P(AUB)=P(A)+P(B) B. P(AUB)=P(A)-P(AUB) C. P(AUB)=P(A)or P(B) D. None
12	If A is a non-singular matrix then adj A is	A. Non-singular B. Symmetric C. Singular D. Non defined
13	A non-terminating non_recurring decimal represents an	A. Irrational no B. Both a & D. Rational no D. None of these
14	an - an-1 will be common difference in an A.P if	A. $n = 1 \forall n \in N$ B. $n \& gt; 1 \land n \in N$ C. $n \in Z$ D. None of the above
15	Question Image	A. a = 2, b = 3 B. a = 3, b = 2 C. a = 2, b = 1, 2 D. a = 3, b = 3
16	Question Image	
17	n! > 2 ⁿ -1 is true when	A. n≤ 3 B. n≤ 6 C. n≥ 4 D. n≤ 6
18	-2, 1, 4, 7, is	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence

		D. Arithmetic series
19	If A is such that a,A,B are in A.P then A is called	A. A.M B. Common ratio C. Common difference D. None of these
20	The value of $\sin^2 20^\circ + \sin^2 70^\circ$ is equal to	A. 1 B. 2 C1 D. 1/2