ECAT Mathematics MCQ's Test For Pre General Science

Sr	Questions	Answers Choice
1	Two sets A and B are said to be disjoint if	
2	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
3	In the expansion of $(a + x)^n$ the general term T_{r+1} is	
4	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
5	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
6	If B ={x/x€ Z ^ - 3 < x < 6}, then n (B) =	A. 5 B. {-3,-2,-1,0,1,2,3,4,5,6} C. 8 D. 9
7	The angles of elevation of the top of a tower at the top and the foot of a pole of height 10 m are 30° and 60° respectively. The height of the tower is	A. 10 m B. 15 m C. 20 m D. None of these
8	(a,0) x (c, 0) =	A. (0,ac) B. (ac, 0) C. (0,0) D. (a, c)
9	Question Image	
10	An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in	A. A.P. B. G.P. C. H.P. D. None of these
11	Question Image	
12	A = B if	D. A is equivalent to B
13	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
14	Question Image	
15	Question Image	D. none of these
16	The sum of n terms of a series is denoted by	A. d B. n C. S_n D. a_n
17	Differentiate the expression $(x-1)(x+2)^2$ with respect to x gives	A. 2x(x+2) B. 2(x-1)(x+2) C. 2(x+1) D. 3x (x+2)
18	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
19	x = 1 is in the solution of the inequality	A. x + 1 > 0 B. x - 2 > 0 C. 3x - 1 < 0 D. x + 2 < 0

20	n(n - 1) (n - 2) .... (n - r + 1) = _____