Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Question Image	A. A linear equation B. A cubic equation C. A quadratic equation D. An equation for circle
2	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
3	The nth term of of A.P:1,5,9,15,..... is given by	A. 4n - 3 B. 4n + 1 C. 3n - 4 D. 4n + 3
4	Question Image	
5	The sum of the series 1+5+9+13+17+21+25+29 is	A. 140 B. 130 C. 120 D. 110
6	The number ways in which 5 distinct toys can be distributed among 3 children is	A. 3⁵ B. 5³ C. C₃⁵ D. P₃⁵
7	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B. -1 C. <u>+</u>1 D. 0
8	If n is a positive integer, then 3+6+9+ ----------+3n =	
9	Question Image	
10	A function F(x) is called even if	A. F(x) = F(-x) B. F(x) = F(-x) C. F(x) = -F(x) D. 2F(x) = 0
11	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
12	A point of a solution region where two of its boundary lines intersect, is called	A. Boundary B. Inequality C. Half Plane D. Vertex
13	Question Image	
14	If any two rows (or any two columns) of a square matrix are inter changed, the determinant of the resultant matrix is	A. Same as the original determinant B. Additive inverse of the original determinant C. Both A and B D. Adj of the original matrix
15	The common difference of the sequence 7,4,1, ... is	A. 1 B. -3 C. 5 D. 0
16	If 1 + Cos x = 0, then x =	
17	Question Image	A. 1 B. 0 C. -2 D. 3
18	Question Image	
		A. 1/5

19	A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds	B. 1/13 C. 5/52 D. 1/52
20	Question Image	D. None of these