Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Which is an explicit function	D. All
2	If Z = (1,2), then Z^{-1}= ?	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2 , -0.4) D. (-0.2, -0.4)
3	Question Image	
4	Question Image	A. Tan x B. X C. - x
5	The value of x, and y, when $(x + iy)^2$= 5 + 4i	A. X = 2, y = -1 B. X = -2, y = 1 C. X = 2, y = -1 D. X = 2, y = 2
6	a + x is	A. A trinomial B. A binomial C. A moomial D. An equation
7	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
8	Question Image	A. 1 B. 2 C. 3 D. 4
9	The line joining (1, 3) to (a, b) has unit gradient then	A. a-b = -2 B. a+b = 0 C. a-b + 5 D. 2a+3b=1
10	Which of the vectors have opposite direction?	D. Both A and B
11	A die is thrown. What is the probability that there is a prime number on the top?	A. 1/2 B. 1/3 C. 1/6 D. 2/3
12	Question Image	D. None
13	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
14	Question Image	
15	Question Image	
16	The set {{a,b}} is	A. Infinite set B. Singleton set C. Two points set D. None
17	Question Image	
18	Write the first four terms of the arithmetic sequence if a_1= 5 and other three consecutive terms are 23,26,29	A. 23, 26, 29, 32 B. 5, 8, 11, 14 C. 8, 11, 14, 17 D. None of these
19	A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds	A. 1/5 B. 1/13 C. 5/52 D. 1/52

20	Question Image