Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
2	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. {(1, 1), (2, 2), (3, 3)} B. {(4, 4), (5, 5), (6, 6)} C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
3	Question Image	
4	Question Image	
5	A die is thrown 100 times. If getting an odd number is considered a success, the variance of the number of successes is	A. 50 B. 25 C. 10 D. 100
6	Question Image	A. An upper triangular matrix B. A lower triangular matrix C. A diagonal matrix D. A null matrix
7	Question Image	
8	$\sin(a + \beta)+\sin(a -\beta) =$_____;	A. $2\cos a \cos\beta$ B. $2\sin a \cos\beta$ C. $2\cos a \sin\beta$ D. $-2\sin a \sin\beta$
9	Question Image	
10	Question Image	A. A B. A' C. U D. U'
11	$f(x) = C$ is	A. identity function B. constant function C. linear function D. quadratic function
12	What is the conjugate of -7 -2i?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 -2i$ D. None of these
13	Question Image	A. $\cos 2x = \sin 4y$ B. $\cos 4y = \cos 2x$ C. $\cos 3y = \sin 4x$ D. None of these
14	Question Image	
15	If $B =\{x/x\in Z \ ^\wedge - 3 < x < 6\}$, then n (B) =	A. 5 B. {-3,-2,-1,0,1,2,3,4,5,6} C. 8 D. 9
16	Question Image	
17	How many signals can be given by 5 flags of different colours, using 3 flags at a time	A. 120 B. 60 C. 24 D. 15
18	Question Image	A. 0 B. 1 C. -A D. -1

19	Question Image	A. Square matrix
		B. Row matrix
		C. Symmetric matrix
		D. Null matrix

20   The condition for polynomial equation $ax^2 + bx + c = 0$ to be quadratic is