Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 3 C. 2-i D. -1
2	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
3	The value of the expression 3 cosθ+ 4 sinθθlie between	A. -7 and 7 B. -25 and 25 C. -1 and 1 D. -5 and 5
4	Which of the following sets in infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
5	An unbiased die is thrown. Then the probability of getting a prime is	A. 1/2 B. 2/3 C. 3/4 D. None of these
6	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
7	if Z1 = 1+i, Z2= 2+3i, then |Z2 -Z1| =	A. √3 i B. √7 C. -2-i D. √5
8	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
9	Question Image	
10	Question Image	
11	Period of cos 2x is _____	
12	If $f(x) = x^2-x$ then f(1) is	A. 0 B. 1 C. 2 D. 3
13	Question Image	
14	For two events A and B if P(A) = P (A/B) = 1/4 and P(B/A) = 1/2, then	A. A is sub-event of B B. A and B are mutually exclusive C. A and B are independent and P(A/B) = 3/4 D. None of these
15	Question Image	
16	Domain of y = cot x = _____	
17	If A is a skew-symmetric matrix of order n and P, any square matrix of order n.prove that P' AP is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal
18	For all points (x,y) on y-axis	A. x is positive B. x = 0 C. x is negative

		D. y = 0
19	The radius of the circle $(x - 1)^2 + (y + 3)^2 = 61$ is	A. 8 B. 4 C. 64 D. None of these
20	If the st. line $3x + 4y = K$ touches the circle $x^2 + y^2 - 10x = 0$ then the value of K is	A. -1 or 20 B. -10 or 40 C. -2 or 20 D. 2 or 20