Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	cos(a-β) = _____;	A. sin a cosβ + cos a sinβ B. sin a cos β - cos a sinβ C. cos a cos β + sin a sinβ D. cos a cosβ - sin a sinβ
2	If the circumference of a circle is divided into 360 congruent parts, the angle subtended by one part at the centre of the circle is	A. 1⁰ B. 1' C. 1" D. 1 rad
3	Rank of matrix [1 3 5 0] is	A. 1 B. 3 C. 2 D. 4
4	Three unbiased coins are tossed. Then the probabilities of getting two heads is	A. 3/8 B. 1/8 C. 1/4 D. None of these
5	Question Image	
6	Question Image	
7	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
8	For non-trival solution |A| is	A. A = 0 B. A^t= 0 C. |A| = 0 D. None of these
9	Question Image	
10	If A and B are two sets then intersection of A and B is denoted by	
11	Three numbers are chosen random without replacement from {1, 2, 3, ..., 10}. the probability that minimum of the chosen numbering is 3 or their maximum is 7	A. 7 / 40 B. 5 / 40 C. 11 / 40 D. None of these
12	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)
13	Two matrices A and B are conformable for the product AB if	A. Both A and B are square B. Both A and B are symmetric C. Number of rows of A = number of columns of B D. Number of columns of A = number of rows of B
14	Question Image	
15	The eccentricity of the parabola y^2= -8x is	A. -2 B. 2 C. -1 D. 1
16	Question Image	
17	Question Image	A. -1 B. 0 C. 1 D. None of these
18	The zero vector is regarded to be parallel to	A. Every vector B. Is some cases C. Both a,b D. None

19	The polynomial x - a is a factor of the polynomial f(x) if and only if	A. f(a) is positive B. f(a) is negative C. f(a) = 0 D. None of these
20	The value of x for which the polynomials x2 - 1 and x2 -2x + 1 vanish simultaneously is	A. 2 B. 1 C. -1 D. -2