Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$x = \sin^{-1} 3$, then the value of sin x is	A. √(3/2) B. 3 C. Not possible D. -1
2	The set Q	A. Forms a group under addition B. Does not form a group C. Contains no additive indentity D. Contains no additive inverse
3	Two coins are tossed twice each. The probability that the head appears on the first toss and the same forces appear in the two tosses is	A. 1/4 B. 1/2 C. 1/3 D. 1/7
4	Which of the following is a vector.	A. work B. time C. density D. electric field
5	f(x) = x is	A. trigonometric function B. exponential function C. quadratic function D. identify function
6	If|a| =|b| = |a+b|=1, then|a-b| is equal to:	A. 1 B. √3 C. √2 D. 7
7	Question Image	
8	If z_1 =√-36 ,z_2 =√-25,z3 =√-16 then	A. 15 B. 15i C. -15i D. -15
9	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	A. cones B. conics C. nappes D. apex
10	Question Image	
11	A second degree equation in which coefficients of $x^2$and y^2 are equal and there is no product therm xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
12	Question Image	D. none of these
13	Question Image	A. A onto B B. both a & c C. A into B D. none of these
14	u,v,wand u x (v.w) are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
15	Question Image	A. Cos 2x = sin 4y B. Cos 4y = cos 2x C. Cos 3y = sin 4x D. None of these
16	A monoid (G, *) is said to be group if	A. have identity element B. is commutative C. have inverse of each element D. None of these
17	A point of a solution region where two of its boundary lines intersect, is called	A. Boundary B. Inequality C. Half plane

		D. Vertex
18	The√ is used for the	A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number
19	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
20	Domain of 3 sin x is _____	A. [-3, 3] B. R C. Positive real numbers D. None of these