Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Domain of tan x is _____	
2	Question Image	
3	Two positive integers whose sum is 30 and their product will be maximum are	A. 12,18 B. 10,20 C. 15,15 D. 14,16
4	The square matrix A is skew-symmetric when At=	A. -B B. -C C. -A D. -D
5	Question Image	A. sec x tan x B. -cosec x cot x C. sec²x D. -sin x
6	The set {1, 2, 3, 4, ...} is called	A. Set of Natural numbers B. Set of whole numbers C. Set of rational number D. Set of irrational numbers
7	In triangle ABC, in which b=95, c=34, a =52 then the value of a=	A. 18 cm B. 18.027 cm C. 20.7 cm D. 19 cm
8	Domain of cos$\theta$is	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
9	Question Image	A. The law of sines B. The law of consines C. The law of tangents D. None of these
10	sin(π/2+θ) = _____;	A. sinθ B. cosθ C. -sinθ D. -cosθ
11	The first three terms in the expansion of $(1 + x)^3$are	A. 1 + 3x +6x² B. 1- 3x + 6x²\ C. -3 -3x -6x² D. 1- 3x -6x²
12	Question Image	A. 0 B. 1 C. -1 D. none of these
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	The tangent to the parabola y2 =4ax and perpendicular line from the focus on it meet	A. x =0 B. y =0 C. x =-9 D. y = -a
15	cos 2α=	A. 1 - 2 sin²α B. sin ²α+ cos²β

		C. sin²<i style= text-align: center;">α-cos²β D. None of these
16	cotθ= sin 2θifθ=	
17	Question Image	
18	Derivative of x^3w.r.t x is	A. 0 B. 1 C. 3x² D. x³
19	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
20	A circle which touches one side of a triangle extermally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle