Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	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
2	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
3	If a particle moves according to the law s = t^3- t^2, then its velocity at time t = 1.5 is	A. 9/2 B. 15/4 C. 5 D. None
4	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
5	cos (α-β) = cosαcosβ+ sinαsin$\beta$is true for all	A. <i style="text-align: center;">α</i>><i style="text-align: center;">β</i>> 0 B. <i style="text-align: center;">α</i>><i style="text-align: center;">β</i> C. <i style="text-align: center;">β</i>><i style="text-align: center;">α</i> D. None of these
6	Question Image	
7	The maximum value of 12 sinθ-9 $sin^2\theta$is x	A. 3 B. 4 C. 5 D. None of these
8	Question Image	B. a f(x) + c C. f(x) + a
9	Question Image	A. Set of whole number B. Rational Numbers C. Complex numbers D. Whole numbers
10	Question Image	
11	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. x - y = -6 B. x - y < -6 C. x - y > -6 D. None
12	3x + 4 > 0 is	A. equation B. identity C. inequality D. none of these
13	Question Image	A. 2x B. 3x² C. 1 D. 0
14	Fundamental law is	
15	Question Image	
16	The intercepts of the plane 2x - 3y + 4z = 12 on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
17	tan(3π/2 +θ)=_____ ;	A. tanθ B. cotθ C. tanθ

| | | C. -tanθ |
| | | D. -cotθ |

18	If the terminal rays of an angle falls on any axis then the angle is called	A. Allied angle
		B. Acute angle
		C. Standard position
		D. Quadrantal angle

19	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers
		B. Rational numbers
		C. All integers
		D. Irrational numbers

20	Question Image	A. cot x + c
		B. tan x + c
		C. -cot x + c
		D. -tan x + c