Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. 2 D. 4
2	The quadratic equation 8 $\sec^2\theta$- 6 $\sec\theta$+1 = 0 has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
3	Question Image	
4	sin(a-90°)=_____;	A. sina B. cosa C. -sinθ D. -cosa
5	The middle term of $(x-y)^8$is	A. 25 x⁴y⁴ B. 70 x⁴y⁴ C. 120 x⁴y⁴ D. 97x⁴y⁴
6	The sum of the focal distance from any point on the ellipse 9x2 +16y2 =144 is	A. 32 B. 16 C. 18 D. 8
7	For all points (x,y) on y-axis	A. x is positive B. x = 0 C. x is negative D. y = 0
8	graph of trigonometric function y = sec x does not meet	A. x - axis B. y -axis C. both axis D. None of these
9	In set builder notation the set {0,1,2,.....100} can be written as	A. {x / xε B ∧ x ≤ 100} B. {x / x ∈ W ∧ x < 101} C. {x / x ∈ Z ∧ x < 101} D. The set of first 100 whole numbers
10	Range of cot x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
11	Question Image	
12	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
13	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
14	Question Image	
15	Question Image	
16	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
		A. -sinθ

17	Question Image	B. cosθ C. sinθ D. -cosθ
18	(a, b) + (-a, -b) =	A. (0,0) B. (a, b) C. (-a, -b) D. (1, 1)
19	If #n = (n-5)2 + 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
20	Question Image	