Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
2	Question Image	A. A,. B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
3	Intersection of two parabolas	A. parabola B. Two points C. Four points D. Hyperobla
4	The matrix A = [aij]1xn is a	A. Vector B. Rectangular matrix C. Column vector D. Square matrix
5	Question Image	A. x C. y
6	If m and n be two scalars, then (m+n) g =	A. 0 B. m+n<img width="9" height="20" src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image002.png" v:shapes="_x0000_i1025"> <!--[endif]--><o:p></o:p> C. m_a+n_a D. ma - m_a <!--[endif]--><o:p></o:p>
7	Question Image	
8	If x^2- 7x + a has remainder 1 when divided by x + 1, then a = _____	A. -7 B. 7 C. 0 D. None of these
9	Find a if 1 is a root of the equation x^2+ ax + 2 = 0	A. 3 B. -3 C. 2 D. 0
10	sin 2 α=	
11	Range of tan x is _____	A. [-1, -] B. R C. Negative real numbers D. R - {x | - 1 < x < 1}
12	A sequence is a function whose domain is	A. N B. Subset of N C. R D. None of these
13	Which is the proper rational function	
14	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x²+ Sx - P = 0 B. x²- Sx + P = 0 C. x²- Sx - P = 0 D. X²+ Sx + P = 0
15	The distance of the point (-2,3) from x-axis is	A. -2 B. 2 C. 3 D. 1
16	Question Image	
17	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
		A. tanθ

18	tan(3π/2 +θ)=_____;	B. cotθ C. -tanθ D. -cotθ
19	The domain of y =√(x^2-9) is	A. R B. (0 , +∞) C. (-∞ , -3) ∪ (3 , +∞) D. (0 ,∞)
20	Which of the following is not a solution of system of inequalities 2x- 3y ≤6,2x +y≥ 2,x +2y≤ 8, x≥ 0,y ≥ 0	A. (1,0) B. (0,4) C. (3,0) D. (8,0)