Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If you are looking a bird in the tree from the ground then the angle formed is called angle of_____;	A. Elevation B. Depression C. Right angle D. None of these
2	The expansion $(1 + x)^{-3}$holds when	A. |x| > 1 B. |x| < 1 C. x < 1 D. x > 1
3	If the points (a,2b):(c,a+b):(2c-a,h) lie on the same line then	A. h=2a B. h=a+b C. h=ab D. h=ac
4	The number of subsets of a set having three elements is	A. 4 B. 6 C. 8 D. none of these
5	O (0,0)is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
6	A square matrix A = [aij] is upper triangular when	A. cij = 0 B. bij = 0 C. aij = 0 for all i > j D. dij = 0
7	Number of ways of writing the letters of WORD taken all at a time is	A. 24 B. 4 C. 12 D. 6
8	The lotus of intersection of perpendicular tangents to the parabola $y^2 = 4ax$ is:	A. Axis of the parabola B. Focal chord of the parabos C. The tangent at vertex of the parabola D. a directrix of the parabola
9	Question Image	A. Rational B. Irrational C. Non-real D. Zero
10	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
11	Cos-1(x)=	A. cos x B. x C. tan-1(-x) D. Sec-1 (1/x)
12	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
13	If sin$\alpha$and cos$\alpha$are the roots of the equation px^2+ qx + r =0, then	A. p²- q²+ 2pr = 0 B. (p + r)²= q²- r² C. p²+ q²- 2pr = 0 D. (p - r)²= q²+ r²
14	The value of sin [arc cos (-1/2)] is	
15	Question Image	A. 0 B. 1

		C. -1 D. 2
16	Corner point of the system $x - y \leq 2, x + y \leq 4, 2x - y \leq 6, x \geq 0, y \geq 0$	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
17	If $a > 0$, $b > 0$, $c > 0$, then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
18	The nth term of a G.P. is	A. a₁rⁿ B. a₁rⁿ⁺¹ C. a₁rⁿ⁻¹ D. a₁r⁻ⁿ
19	Question Image	A. 1 B. 2 C. 3
20	Range of sin x is _____	A. [-1, 1] B. R C. Negative real numbers D. None of these