Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If you are looking a high point from the ground, then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
2	In (x + iy) x is the known as	A. Imaginary part of complex number B. Real part of complex number C. Complex number D. None of above
3	Question Image	
4	The largest possible domain of the function: $y=\sqrt{(x)}$ is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
5	If the cone is cut by a plane perpendicular to the axis of the conec, then the section is a:	A. Circle B. ellipse C. hyperbola D. parabola
6	For any integer k, w^n= _____ when n = 3k	A. 1 B. 2 C. 0 D. -4
7	A function whose domain is a subset of natural numbers is called _____	A. Identity function B. Sequence C. Onto function D. Series
8	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. 1/6 D. 1/2
9	Question Image	D. all
10	If a_1, r and $a_n$are the first term, common ratio and the nth term respectively of a G. P. then a_n=	A. a₁rⁿ B. a₁rⁿ⁻¹ C. a₁rⁿ⁺¹ D. a₁
11	8 . 7 . 6. 5 in factorial form is	
12	I f the focus is F (0,-a) and directrix is the line v=a, then equation of the parabola is:	A. x² = 4ay B. y² = 4ax C. y² = -4ax D. x² = 4ax
13	Question Image	A. Scalar matrix B. Identity matrix C. Null matrix D. Symmetric matrix
14	Eight chairs are numbered 1 to 8. Two women and three men wish to occupy one chair each. First, the women choose the chairs from amongst the chairs marked 1 to 4 and then the men select the chairs from amongst the remaining. The number of possible arrangement is	A. ⁶C₃x ⁴C₂ B. ⁴C₂x ⁴P₃ C. ⁴P₂x ⁶P₃ D. None of these
15	Identity w.r.t intersection in a power set of any set is	A. ∅ B. Set itself C. Singleton set D. {0}
16	Question Image	
17	The sum of first 60 natural numbers is	A. 1830 B. 3660 C. 1640

		D. 1770
18	The value of x which is unchanged by the mapping in the function defined by f ; x x^2 + 5x - 5 for x> 0 is	A. 1 B. 5 C. -5 D. -1
19	The value of x for which the polynomials x2 - 1 and x2 -2x + 1 vanish simultaneously is	A. 2 B. 1 C. -1 D. -2
20	Question Image	