Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
2	There are 25 tickets bearing number from 1 to 25. One ticket is drawn at random. The probability that the number on it is a multiple of 5 or 6 is	A. 7 / 25 B. 9 / 25 C. 11 / 25 D. None of these
3	The exponent of x in 10th term in the expansion of (a+x)n	A. 10 B. 12 C. 11 D. 9
4	Question Image	A. 2 B. 4 C. 8 D. 16
5	Question Image	
6	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
7	Question Image	A. π / 4 B. π / 6 C. π / 3 D. 0
8	The conic ax2+2hxy+by2+2gx+2fy+c= 0 never represent a circle if	A. a≠ b,h≠0 B. a=b C. h≠0 D. h=0
9	If n is a positive integer then n! is	A. (n - 1) (n - 2) .....3,.2.1 B. n(n - 1) (n - 2) ...3.2.1 C. n(n - 1) (n -2) ... 3 D. None of these
10	6! = _____	A. 360 B. 720 C. 6.5.4 D. None of these
11	Question Image	A. Additive property of inequality B. Commutative property C. Additive inverse D. Additive identity
12	The area enclosed between the graph $y = x^2 - 4x$ and the x- axis is:	A. 20/3 B. 41/3 C. 32/3 D. 25/3
13	Range of $\tan\theta$ is	A. Set of complex numbers B. Set of real numbers C. Set of odd numbers D. Set of positive integers only
14	Z is the set of integers, (z, *) is a group with a * b = a + b + 1, a, b $\in$ G. then inverse of a is	A. -a B. a + 1 C. -2 -a D. None of these
15	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
16	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

16	The locus of intersection of perpendicular tangents to the parabola $y^2 = 4ax$ is:	C. The tangent at vertex of the parabola D. a directrix of the parabola
17	Question Image	A. sin h x B. cos h x C. sec h x D. cosec h x
18	Question Image	
19	Question Image	
20	Question Image	