Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
2	If $(1+x)^n = C_0 + C_1 x + C_2 x^2 + \ldots + C_n x^1$ then $C_0 C_2 + C_1 C_3 + C_2 C_4 + \ldots + C_{n-2} C_n =$	
3	Question Image	
4	The number z so that the triangle with vertices A(1,-1,0), B(-2,2,1) and C(0,2,z) is a right triangle with right angle at vertex C	A. 1,2 B. -1,-2 C. 2,-1 D. -2,1
5	Question Image	A. p < r B. p > rr C. p + r < 0 D. p - r < 0
6	Question Image	A. 0 B. 1 C. -2 D. 10
7	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
8	If in a set of real no a is additive identity then	A. a+a = 2a B. a+a = 1 C. a+a = 0 D. None of these
9	The area between the x-axis the curve $y = 4x - x^2$ is :	A. 32/2 B. 15 C. 18 D. 21
10	Question Image	
11	$\sin(3\pi/2 - \theta) = \underline{\qquad}$;	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
12	In $\triangle ABC$ if y = 90° then the Pythagoras theorem is	A. $b^2 + c^2 = a^2$ B. $a^2 + b^2 = c^2$ C. $a^2 + c^2 = b^2$ D. None of these
13	Cos 60° = _____	A. 1 B. 2 C. 1/2 D. 3
14	Question Image	
15	p, q, r and s are integers. If the A.M. of the roots of $x^2 - px + q^2 = 0$ and G.M. of the roots of $x^2 - rx + s^2 = 0$ are equal, then	A. q is an odd integer B. r is an even integer C. p is an even integer D. s is an odd integer
16	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
17	(a,b) + (-a,-b) =	A. (0,0) B. (a,b) C. (-a,-b) D. (1,1)

18	A vertical pole is 8m high and the length of its shadow is 6m. The angle of elevation of the sun of the moment is	A. 57$\square$ B. -48$\square$ C. 27$\square$ D. 53$\square$
19	Question Image	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
20	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	A. cones B. conics C. nappes D. apex