Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set { 1 , -1} is closed w.r.t.	A. Addition B. Multiplications C. Subtraction D. None of these
2	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
3	One degree is denoted by	A. 1⁰ B. 1' C. 1" D. 1 rad
4	The set {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
5	If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is	A. 8, 15, 17 B. 3, 4, 5 C. 12, 15, 18 D. 5, 12, 13
6	Question Image	A. 2x + 2y B. 4 - x² C. -x/y D. x/y
7	Question Image	A. A.P. B. G.P. C. H.P. D. None of these
8	Second derivative of $y = x^9 + 10x^2 + 2x - 1$ at x = 0 is	A. 10 B. 20 C. 12 D. 1
9	Question Image	A. n(A) B. n(B) C. 0 D. 1
10	2π is the period of	A. sin□ B. tan□ C. cot□ D. all circular function
11	Question Image	
12	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
13	The equations of the line thro' the point (2, 3, -5) and equally inclined to the axis are	
14	Te order of the differential equation of all conics whose axes coincide with the axes of co-ordinates is	A. 2 B. 3 C. 4 D. 1
15	Question Image	A. 0 B. -1-w²
16	The equation of the circle with centre (-h, -k) and radius r is	A. (x +h)²+ (y+k) ²= r² B. (x +h)²+ (y-k) ²= r² C. (x -h)²+ (y+k) ²= r² D. (x -h)²+ (y-k) ²= r²

17	Question Image	A. π B. π / 2 C. π / 3 D. π / 4
18	Question Image	A. 0 B. -1 C. 1 D. 2
19	The graph of the quadratic equation is	A. Straight line B. Circle C. Parabola D. elipse
20	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these