Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following is a quadrantal angle	A. 100° B. 200° C. 170° D. 270°
2	x = _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4
3	The points (5, 2, 4)(6, -1, 2) and (8, -7, k) are collinear if k is equal to	A. -2 B. 2 C. 3 D. -1
4	The points of intersection of the line y = 2x -3 and the circle $x^2 + y^2 - 3x = 2y - 3 = 0$ are:	A. two B. three C. less thean two D. not intersect
5	Φ set is the _____ of all sets	A. Subset B. Union C. Universal D. Intersection
6	The roots of the equation x2 +6x-7=0,are	A. 1 B. 2 C. 1 and -7 D. -7
7	If z1 = 2 + 6i and z2 = 3 + 7i then which expression defines the product of z1 and z2	A. 36 +(-32)i B. -36+32i C. 6+(-11)i D. 0, +(-12)i
8	Question Image	
9	Question Image	
10	Geometrically, the modulus of a complex number represents its distance from the	A. Point (1, 0) B. Point (0, 1) C. Point (1, 1) D. Point (0, 0)
11	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is:	A. an ellipse B. Circle C. a hyperbola D. a parabola
12	Range of y = sec x is	A. -1≤ y≤ 1 B. y≥ 1 or y≤ -1 C. y≤ 1or y≥ -1 D. -∞ < y < +∞
13	Three integers are chosen at random from the first 20 integers. Then probability that their product is even, is	A. 2 / 19 B. 3 / 29 C. 17 / 19 D. 4 / 19
14	Question Image	
15	$\cos^4\theta - \sin^4\theta =$	A. cos4θ B. cos2θ C. -sin<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-

		align: center; background-color: rgb(255, 255, 224);">θ D. sin2θ
16	Question Image	
17	If $d_1$is the distance between (0,0) and (1,2) and $d_2$is the distance between (0,0) and (-1,-2) the	A. d₁< d₂ B. d₁> d₂ C. d₁= d₂ D. none of these
18	Question Image	
19	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
20	The condition for polynomial equation ax^2+ bx + c = 0 to be quadratic is	