Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon
2	(a,0) x (c,0) =	A. (0,ac) B. (ac,0) C. (0,0) D. (a,c)
3	In quadratic equation, if the replacement of y with -y leaves the equation unchanged, then the graph is	A. Straight line B. Circle C. Hyperbola D. Symmetric w.r.t.0
4	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. x - y = -6 B. x - y < -6 C. x - y > -6 D. None
5	Question Image	
6	Question Image	A. cos x + c B. -sin x + c C. -cos x + c D. sin x + c
7	If a $(p + q)^2$+ bpq +c = 0 and a $(p + r)^2$+ 2 bpr + c = 0, then qr equals	A. p²+ c/a B. p²+ a/c C. p²+ c/a D. p²- c/a
8	AB is a vertical pole and C is its middle point. The end A is on the level ground and P is any point on the level ground other than A. the portion CB subtends and angleβat P. If AP : AB = 2 : 1 thenβ=	
9	Question Image	
10	(0,0) is in the solution of the inequality	A. x + y > 3 B. x - y > 2 C. 3x + 2y > 5 D. 3x - 2y < 2
11	In set builder notation the set {0,1,2,.....100} can be written as	A. {x / xε B ∧ x ≤ 100} B. {x / x ∈ W ∧ x < 101} C. {x / x ∈ Z ∧ x < 101} D. The set of first 100 whole numbers
12	If n is odd then the middle terms in the expansion of $(a + x)^n$are	
13	Question Image	
14	The distance of the point (a, b) from x-axis is	A. a B. b C. a + b
15	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
16	For any two sets A and, A ⊆ B if	A. x ∈ A ⇒ x ∈ B B. x ∉ A ⇒ x ∉ B C. x ∈ A ⇒ x ∉ B D. None of these
17	The set {1,-1, i, -i} form a group under	A. Addition B. Multiplication C. Subtraction D. None

18	Number of selections of n different things out of n	A. 1 B. nPr C. n! D. nPr
19	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar
20	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction