Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y. If AB = 1, then the height h of the tower is given by	
2	The sum of an indicated number of terms in a sequence is called	A. sequence B. progression C. Series D. Mean
3	Tan(α-β)=	
4	(√3+√5)+√7 = √3 +(√5 +√7) property used in above is	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t to adition
5	Question Image	B. sin 2x + c C. -sin 2x + c
6	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
7	Question Image	D. none of these
8	(7,9) +(3,-5) =	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)
9	Question Image	
10	Question Image	A. The law of consines B. The law of sines C. The law of tangents D. None of these
11	If 4 $\sin^2\theta$=1, then values of$\theta$are	
12	ab > 0 and a > 0 then	A. a > b B. a < b C. a = b D. None
13	If one end of the diameter of the circle $2x^2 + 2y^2$ -8x - 4y = 2 = 0 is (2 ,3), the other end is:	A. (2,1) B. (-2,1) C. (2,-1) D. (1,-1)
14	The additive identity of real number is	A. 1 B. 2 C. 1/2 D. 0
15	Question Image	
16	Question Image	
17	If Z_1= 1 + i, Z_2= 2+3i, then $\|Z_2 - Z_1\|$ = ?	
18	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
19	Question Image	A. 0 B. 2 C. 4/3 D. 5/3
		A. 1 + x + x²

20	The first three terms in the expansion of $(1 - x)^{-1}$ are	B. 1 - x - x² C. -1 -x +x² D. 1 - x + x²