Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	sin (α -β)=	A. sinα cosβ- cosαsinβ B. sinα cosβ+ cosαsinβ C. sinα cosα- cosβsinβ D. sinα cosα- cosβsinβ
3	Question Image	A. The law of consines B. The law of sines C. The law of tangents D. None of these
4	Question Image	
5	If the st. line 3x + 4y = K touches the circle x^2+ y^2- 10x = 0 then the value of K is	A. -1 or 20 B. -10 or 40 C. -2 or 20 D. 2 or 20
6	(√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
7	The set { {a, b} } is	A. Infinite set B. Singleton set C. Two points set

		D. Empty set
8	The range of function f(x)=-x2+2x-1 is	A. R B. (-∞,0] C. (-∞,1] D. [0,∞)
9	The set of all positive even integers is	A. Not a group B. A group w.r.t subtraction C. A group w.r.t division D. A group w.r.t multiplication
10	Question Image	
11	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
12	If a=5j + 2j,b=2i -3j, then|a+2b|=	A. √21 B. √97 C. √39 D. None of these
13	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
14	The set of natural no. is closed under	A. multiplication B. subtraction C. difference D. division
15	If k2x2 +2hxy- 4y2 =0 represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
16	Question Image	A. 0 B. 20 C. 90 D. 80
17	The first three terms in the expansion of $(1 - x)^{-3}$ are	A. 1 + 3x + 6x² B. 1 - 3x + 6x² C. -3 - 3x - 6x² D. 1 - 3x - 6x²
18	Question Image	
19	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0 E. ∞
20	Question Image	