Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	∀a,b,c∈R, a >b ∧ b>c ⇒ a >c is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
2	If A is a non singular matrix then A^{-1}= _____	
3	Question Image	A. Addition B. Subtraction C. Multiplication D. None of these
4	24 can be written as a product of	A. Odd factors B. Even factors C. Whole factors D. Prime factors
5	Question Image	A. 0 B. 1
6	IfΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
7	Range of cosec x is _____	A. {-1, 1} B. R C. Negative real numbers D. R - { x | - 1 < x < 1}
8	y=-a is the equation of the directrix of	A. y2 =4ax B. x2=-4ay C. x2=4ay D. y2=-4ax
9	The maximum value of the quadratic function f(x) = 2x2-4x+7,is	A. 3 B. 5 C. -3 D. -5
10	The value of x for which the polynomials x2 - 1 and x2 -2x + 1 vanish simultaneously is	A. 2 B. 1 C. -1 D. -2
11	The set { {a, b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set
12	Composition of functions is	A. Non-commutative (fg ≠ gf) B. non-associative [8(fh) ≠(8f)h] C. Commutative (fg = gf) D. f of-1≠ 1
13	The point R dividing internally the line joining the points P(x_1, y_1) and Q(x_2, y_2) in the ratio K_1: K_2has the coordinates	
14	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
15	Question Image	A. 2 B. -3/2 C. 1 D. 0
16	Question Image	A. Additive property of inequality B. Commutative property C. Additive inverse D. Additive identity
17	Question Image	

18	The point of concurrency of the medians of a triangle is called	A. incentre B. circumcentre C. e-centre D. centroid
19	If G is the centroid of the triangle, then GA +GB+GC=	A. 0 B. 1 C. -1 D. 3
20	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. 4 : 4! B. 4! C. 5! D. 4!+4!