Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. -1 B. 0 C. 1 D. undefined
2	Question Image	A. A(α) - A(β) B. A(α) + A(β) C. A(α-β) D. A(α+β)
3	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
4	Question Image	
5	If $f(x) = x^2$then f(0) is	A. 0 B. 1 C. 2 D. none of these
6	If #n = (n-5)2 + 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
7	If a particle moves according to the law $s = t^3 - t^2$, then its velocity at time t = 1.5 is	A. 9/2 B. 15/4 C. 5 D. None
8	If u = xi + yj, then|u|	A. x² + y² B. (x² +y²) ² C. x²-y² D. √(x²+y²)
9	If (a, b) is the mid-point of a chord passing thro' the vertex of the parabola $y^2 = 4x$, then	A. a = 2b B. 2a = b C. a²= 2b D. 2a = b²
10	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16 D. 0.96
11	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon

12	Question Image	
13	The additive inverse of a matrix A is	D. None of these
14	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
15	The domain of f(x) = log x is	A. [0,∞] B. (0,∞) C. [0,∞[D. [∞, ∞]
16	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers
17	Question Image	A. 1 B. 2 C. 0 D. 4
18	The distance between the points (1, 2) and (2, 1) is	A. 3 B. 6
19	How many arrangements of the letters of the word MI SSI PPI, taken all together can be made?	
20	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1