Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The greatest term in the expansion of $(3+2x)^9$, when x=1 is	A. 4th B. 4th and 5th C. 5th D. 6th
2	Question Image	
3	Period of Sine and Cosine function is	A. π B. 2π C. -π D. -2π
4	Question Image	
5	The matrix A = [aij]mxn with m ≠n is always	A. Symmetric B. Hermition C. Skew-symmetric D. None
6	Question Image	A. -1 B. 0 C. 2 D. 1
7	The perimeter of a sector of a central angle of measure 1 radian out off an are of length 35cm is	A. 35 cm B. 70 cm C. 140 cm D. 105 cm
8	If $\sin x + \sin^2 x = 1$, then the value of $\cos^{12} x + 3\cos^{10} x + 3\cos^8 x + \cos^6 x + 2\cos^4 x + \cos^2 x - 2$ is equal to	A. 0 B. 1 C. 2 D. sin²x
9	Question Image	A. 0 D. undefined
10	Question Image	
11	Which of the following is a vector.	A. energy B. force C. work D. power
12	Question Image	
13	A die is thrown, the probability that the dots on the top are prime numbers or odd numbers is	A. 1/2 B. 2/3 C. 1/3 D. 2/5
14	The two parts into which 57 should be divided so that their product is 782 are	A. 43,14 B. 34,23 C. 33,24

		D. 44,13
15	$x^3+ 2x^2- 3x + 5$ is _____	A. An equation B. A polynomial C. Proper rational fractions D. Improper rational fractions
16	Question Image	
17	The slope of the normal at the point (at^2, 2at) of the parabola $y^2= 4ax$ is	A. 1/t B. t C. -t D. -1/t
18	Which of the following is not a unit vector	A. [1, 1, 1] B. [0, 1, 0] C. [0, 0, 1] D. [1, 0, 0]
19	The condition for ax2 + bx c to be expressed as the product of linear polynomials is	A. b4 - 4ac =0 B. b4- 4ac ≥0 C. b4- 4ac <0 D. b4= 4ac
20	Question Image	