Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	Three dice are thrown together. The probability of getting a total of at least 6 is	A. 103 / 108 B. 10 / 216 C. 93 / 108 D. None of these
3	Question Image	D. none of these
4	Question Image	
5	(a-1)-1 =	A. a-1 B. a C. -a D. None of above
6	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
7	Question Image	A. ⁿC_r B. ⁿ⁺¹C_{r+1} C. ⁿC_{r+1} D. None
8	The period of the function f(x) = $\sin^4 x + \cos^4 x$ is	A. π B. π /2 C. 2π D. None of these
9	Question Image	A. cos x B. sec x tan x C. sec²x D. -cosec²x
10	The law of cosines reduces to a2 +c2 =b2 for	A. α = 90° B. β = 90° C. γ = 90° D. α +β +γ =180°
11	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60^o D. neither parallel nor perpendicular
12	Question Image	
13	A and B be two square matrices and if their inverse exist, the $(AB)^{-1}$=	A. A⁻¹B⁻¹ B. AB⁻¹ C. A⁻¹B D. B⁻¹A⁻¹
14	Question Image	A. A B. A' C. U D. U'
15	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19

		D. √(2&7)
16	The point (x_1, y_1) lies outside the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ if	
17	Which of the following is a factor of $x^3 - 3x^2 + 2x - 6$	A. x + 2 B. x + 3 C. x - 3 D. x - 4
18	Question Image	
19	The area between the x-axis and the curve $y = x^2 + 1$ from x = 1 to 2 is:	A. 15/6 B. 15/4 C. 10/4 D. 10/3
20	Question Image	