Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The point of concurrency of the angle bisectors of a triangle is called	A. incentre B. circumcentre C. e-centre D. centroid
2	If A = [aij]mxpand B =[aij]pxnthen order of BA is	A. m x n B. p x n C. n x m D. None of these
3	Eight chairs are numbered 1 to 8. Two women and three men wish to occupy one chair each. First, the women choose the chairs from amongst the chairs marked 1 to 4 and then the men select the chairs from amongst the remaining. The number of possible arrangement is	A. ⁶C₃x ⁴C₂ B. ⁴C₂x ⁴P₃ C. ⁴P₂x ⁶P₃ D. None of these
4	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
5	Question Image	
6	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers 1, 2, 3, ...10 is	A. 1/5 B. 1/4 C. 1/3 D. 1/2
7	If 0 = {1,3,5.....}, then n (0) =	A. Infinite B. Even numbers C. odd integers D. 99
8	If y=sin(ax+b) then y4=_____:	A. sin4(ax+b) B. a4sin(ax+b) C. a4cos(ax+b) D. None of these
9	The additive inverse of a matrix A is	D. None of these
10	The period of 2 cos x is	A. 30π B. 7π C. 5π D. 2π
11	Corner point of the system x - y≤ 2,x + y≤ 4,2x -y≤ 6,x≥ 0,y≥ 0	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
12	Question Image	A. 0 B. 1 C. -1 D. None of these
13	Question Image	
14	An equation of the form ax + by = k is homogeneous linear equation when:	
15	The radius of the circle $(x - 1)^2 + (y + 3)^2 = 61$ is	A. 8 B. 4 C. 64 D. None of these
16	w^{11}= _____	A. 0 B. 1 C. w D. w²
17	Question Image	A. 0 B. 1 C. 2

		D. 1/2
18	Name the property used in 1000 x 1 = 1000	A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity
19	Period of sin 3x is _____	
20	The line Ax + By + C = 0 will touch the circle $x^2+ y^2=\lambda$ *when*	A. C²=λ (A²+ B²) B. A²=λ(A²+ C²) C. B²=λ(A²+ C²) D. None of these