

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924
2	Question Image	
3	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
4	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
5	Question Image	D. none of these
6	Question Image	
7	If $\cos 20^\circ = K$ and $\cos x = 2K^2 - 1$, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°
8	The two lines $y = 2x$ and $x = 2y$ are	A. Parallel B. Perpendicular C. Equally inclined with axes D. Congruent
9	The sum of the roots of the equation $x^2 - 6x + 2 = 0$ is	A. -6 B. 2 C. -2 D. 6
10	The ellipse and hyperbola are called	A. Concentric conics B. Central conics C. Both a b D. None
11	Question Image	
12	E-radius corresponding to $\angle C$ is	
13	Three points whose position vector a, b, c are collinear	A. $axb + bxc + cxa = 0$ B. $a, b + b, c + c, a = 0$ C. $a, a \times c = 0$ D. $a + b + c = 0$
14	Question Image	D. all are correct
15	Question Image	
16	Question Image	
17	Question Image	
18	$\tan(\cot^{-1}x)$ is equal to	A. $\cot(\tan^{-1}x)$ B. $\tan x$ C. $\sec x$ D. None of these
19	Maximum value of $z = 15x + 20y$ subject to $3x + 4y \leq 12, x, y \geq 0$ is given by	A. 46 B. 60 C. 50 D. 70
20	Question Image	