

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	D. none of these
2	<input type="text" value="Question Image"/>	A. 30° B. 45° C. 60° D. 120°
3	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve obtained is	A. an ellipse B. a hyperbola C. a circle D. a parabola
4	an $-an-1, \forall n \in \mathbb{N} \wedge n > 1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
5	<input type="text" value="Question Image"/>	
6	<input type="text" value="Question Image"/>	A. $\sinh x$ B. $\cosh x$ C. $\sec h x$ D. $\operatorname{cosec} h x$
7	In the expansion of $(x+y)^n$ the coefficient of 5th and 12th terms are equal then $n=$	A. 12 B. $n=14$ C. 17 D. $n=15$
8	<input type="text" value="Question Image"/>	A. 1 B. 5 C. 7 D. 9
9	<input type="text" value="Question Image"/>	A. $a = 2, b = 3$ B. $a = 3, b = 2$ C. $a = 2, b = 1, 2$ D. $a = 3, b = 3$
10	$y=0$ of the parabola $y^2 = 4ax$ is the	A. equation of directrix B. Equation of the tangent C. Equation of axis D. equation of latus rectum
11	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. $\sin^2 x$
12	<input type="text" value="Question Image"/>	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
13	The point R dividing externally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio $k_1: k_2$ has the coordinates	
14	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. $1/12$ B. $1/6$ C. $5/12$ D. $7/12$
15	$4/\sqrt{49}$ is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
16	<input type="text" value="Question Image"/>	A. $a \sec(ax + b) + c$ B. $-a \sec(ax + b) + c$
17	<input type="text" value="Question Image"/>	
18	Four cards are drawn at random from a pack of 52 playing cards. The probability of getting	A. $44/4165$ B. $22/4165$

18	all the four cars of the same suit is	C. 11/4165 D. None of these
19	The line $2x + \sqrt{6}y = 2$ is a tangent to the curve $x^2 - 2y^2 = 4$ The point of contact is	A. $(\sqrt{6}, 1)$ B. $(2, 3)$ C. $(7, -2\sqrt{6})$ D. $(4, -\sqrt{6})$
20	$\sin 5\theta + \sin 3\theta =$ _____;	A. $2\sin 4\theta \cos \theta$ B. $2\cos 4\theta \sin \theta$ C. $2\cos 4\theta \cos \theta$ D. $-2\sin 4\theta \sin \theta$