

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
2	The domain of the function $x/x^2 - 4$ is given by	A. R B. $R + 2$ C. $[R - (\sqrt{2} + \sqrt{2})]$ D. $R - 4$
3	The axis of the parabola $x^2 = 4ay$ is:	A. $y = 0$ B. $x = 0$ C. $x = -a$ D. $y = a$
4	An unbiased die is thrown. Then the probability of getting a prime is	A. $1/2$ B. $2/3$ C. $3/4$ D. None of these
5	In order of A is $m \times n$ and order of B is $n \times p$ then order of AB is	A. $m \times m$ B. $n \times n$ C. $m \times p$ D. $p \times m$
6	Question Image	A. -1 B. 0 C. 1 D. undefined
7	The vector $k = [0, 0, 1]$ is called unit vector along:	A. x - axis B. y - axis C. z - axis D. None of these
8	Question Image	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplication identity
9	The equation of the circle with centre $(-h, -k)$ and radius r is	A. $(x + h)^2 + (y + k)^2 = r^2$ B. $(x + h)^2 + (y - k)^2 = r^2$ C. $(x - h)^2 + (y + k)^2 = r^2$ D. $(x - h)^2 + (y - k)^2 = r^2$
10	The centre of the circle $x^2 + y^2 - 2fx - 2gy + x = 0$ is	A. $(-g, -f)$ B. (g, f) C. (f, g) D. $(-f, -g)$
11	If $f(x) = \cos x$ then $f(0)$ is	A. 0 B. 1 C. $1/2$
12	5th term of a G.P. is 2, then the product of first 9 terms is	A. 256 B. 128 C. 512 D. None of these
13	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute D. Radian
14	The number of combinations of 10 different objects taken 8 objects at a time is	A. 90 B. 45 C. 55 D. 50
15	If n is any positive integer then $3 + 6 + 9 + \dots + 3n =$ _____	

16	An event having more than one sample point is called	A. Certain event B. Compound event C. Simple event D. None
17	Question Image	A. an A.P. B. a G.P. C. a H.P. D. None of these
18	Question Image	
19	The square matrix A is skew Hermitian when $(A)' =$	A. A B. A' C. $-A$ D. A
20	The range of the principal sine function is	