

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The additive identity of real number is	A. 1 B. 2 C. 1/2 D. 0
2	Question Image	A. n if n is even B. 0 for any natural number n C. 1 if in odd D. None of these
3	The equation of the circle wit $(-1, 1)$ and radius 2 is	
4	If n is a positive integer then $n!$ is	A. $(n - 1) (n - 2) \dots 3, 2, 1$ B. $n(n - 1) (n - 2) \dots 3, 2, 1$ C. $n(n - 1) (n - 2) \dots 3$ D. None of these
5	If n is any positive integer then $n! > n^2$ for	
6	Question Image	
7	Question Image	
8	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. $\sin^2 x$
9	Question Image	A. 3/4 B. -3/4 C. 4/3 D. -4/3
10	$3x + 4 \leq 0$ is	A. not inequality B. equation C. identity D. inequality
11	The transport of a null matrix is	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
12	Let S_n denote the sum of the first n terms of an A.P. If $S_{2n} = 3 S_n$: S_n is equal to	A. 4 B. 6 C. 8 D. 10
13	Question Image	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $-\sec x + c$ D. $\sec x + c$
14	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
15	Question Image	A. Symmetric B. Skew-symmetric C. Hermitian D. Skew hermitian
16	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
17	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
		A. Parabola - ...

18 The set of all points in the plane that are equally distant from a fixed point to called a

- B. ellipse
- C. Hyperbola
- D. Circle

19 Question Image

20 if $Z_1 = 1+i$, $Z_2 = 2+3i$, then $|Z_2 - Z_1| =$

- A. $\sqrt{3} i$
- B. $\sqrt{7}$
- C. $-2-i$
- D. $\sqrt{5}$