

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The series obtained by adding the terms of a geometric sequence is called	A. Infinite series B. Arithmetic series C. Geometric series D. Harmonic series
3	If $a_n = 2n - 3$, write the first four terms	A. -3, -1, 1, 3 B. 1, 3, 5, 7 C. -1, 1, 3, 5 D. None of these
4	Question Image	
5	Let a_1, a_2, a_3, a_4 and a_5 be such that $a_1, a_2,$ and a_3 are in A.P., a_2, a_3 and a_4 are in G.P and a_3, a_4 and a_5 are in H.P. Then, a_1, a_3 and a_5 are in	A. G.P. B. A.P. C. H.P. D. None of these
6	$\forall a, b \in \mathbb{R}, ab = ba$ is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
7	Trivial solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
8	The corner point of the boundary lines, $x - 2y = 2x + y = 2$ is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
9	One degree is denoted by	A. 1° B. 1' C. 1" D. 1 rad
10	If $B = \{x \in \mathbb{Z} \mid -3 < x < 6\}$, then $n(B) =$	A. 5 B. $\{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$ C. 8 D. 9
11	The common ratio of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
12	The value of n, when ${}^n P_2 = 20$ is	A. 3 B. 4 C. 6 D. 5
13	$\sin(2\pi - \theta)$	A. $\cos \theta$ B. $\sin \theta$ C. $\tan \theta$ D. $-\sin \theta$
14	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
15	The second degree equation of the form $Ax^2 + By^2 + Gx + Fy + C = 0$ represent hyperbola if	A. $A = B \neq 0$ B. $A \neq B$ and both are of same sign C. $A \neq B$ both are of opposite sign D. Either $A = 0$ or $B = 0$
16	Question Image	

17	If the intersection of two sets is non-empty, but neither is a subset of the other are called	A. Disjoint sets B. Overlapping C. Equal sets D. None of these
18	$\{0\}$ is a	A. Empty set B. Singleton set C. Zero set D. Null Set
19	The distance of a moving particle at any instant t is $x = 3t^2 + 1$ then velocity of particle at $t = 10$ is	A. 50 cm/sec B. 60 cm/sec C. 61 cm/sec D. None of these
20	Question Image <input type="text"/>	