

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The roots of $ax^2 + bx + c = 0$ are always unequal if	A. $b^2 - 4ac = 0$ B. $b^2 - 4ac \neq 0$ C. $b^2 - 4ac > 0$ D. $b^2 - 4ac \geq 0$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. An ellipse B. A parabola C. A circle D. A hyperbola
3	If A is a skew-symmetric matrix of order n and P, any square matrix of order n. prove that P' AP is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-2x \cos x^{>2</sup>}$ B. $-2x^{>2</sup> \sin x^{>2</sup>}$ C. $-x^{>2</sup> \sin x$ D. $-2x^{>2</sup> \sin x^{>2</sup>}$
5	The set of months in a year beginning with S.	A. {September, October, November} B. Singleton set C. Null set D. Empty set
6	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
7	The perimeter of a sector of a central angle of measure 1 radian out off an are of length 35cm is	A. 35 cm B. 70 cm C. 140 cm D. 105 cm
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. l3 B. r l3 C. r D. none
9	The square matrix A is skew-symmetric when $A^t =$	A. -B B. -C C. -A D. -D
10	The property used in $-3 < -2 \Rightarrow 0 < 1$	A. Commutative property B. Additive property of inequality C. Additive inverse D. Additive identity
11	A sequence of number whose reciprocals form an arithmetic sequence is called	A. Geometric sequence B. Arithmetic series C. Harmonic sequence D. Harmonic series
12	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAIG B. NAAIG C. IAANG D. INAGA
13	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 90° C. 180° D. 360°
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	The transpose of a zero matrix is a	A. Column matrix B. Zero matrix

16	The transpose of a zero matrix is a _____	C. Row matrix D. Scalar matrix
17	For the parabola the line through focus and perpendicular to the directrix is called	A. Tangent B. Vertex C. Axis D. None
18	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
19		A. Associative law of multiplication B. Commutative law of addition C. Commutative law of multiplication D. Associative law of addition
20	Which of the following sets is finite	A. The set of natural numbers between 3 and 10 B. The set of rational numbers between 3 and 10 C. The set of real numbers between 0 and 1 D. The set of rational numbers between 0 and 1