

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If ΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula
2	The series obtained by adding the terms of an arithmetic sequence is called the	A. Infinite series B. Harmonic series C. Geometric series D. Arithmetic series
3	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
4	The number of terms in the expansion of $(a + x)^{12}$ is	A. 13 B. 12 C. 11 D. 10
5	The consecutive terms of a progressions are 30, 24, 20. The next term of the progression is	
6	Question Image <input style="width: 200px; 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. $-2x^{>2</sup> \sin x^{>2</sup>}$
7	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
8	Form a group of 5 men and 3 women, a committee of 4 persons is to be selected randomly. The probability that there is a majority of men is	A. $\frac{1}{4}$ B. $\frac{1}{3}$ C. $\frac{1}{2}$ D. $\frac{1}{6}$
9	The set of the first elements of the orders pairs forming a relations is called its	A. Relation in B B. Range C. Domain D. Relation in A
10	Period of $\sec x$ is _____	
11	$(a,0) \times (c, 0) =$	A. (0,ac) B. (ac, 0) C. (0,0) D. (a, c)
12	The angle between lines $xy = 0$ is	A. 45° B. 60° C. 90° D. 180°
13	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
14	The point on $y^2 = 4ax$ nearest to the focus has its abciassae equal to	A. -a B. a C. $\frac{a}{2}$ D. 0
15	Equation of the chord of contact to the tangents drawn from $(-3,4)$ to the circle $x^2 + y^2 = 21$	A. $-3x + 4y = 21$ B. $4x - 3y = 0$ C. $-3x + 4y = 25$ D. None of these
16	If for two events A and B , $P(A \cup B) = 1$, then events A and B are	A. Certain events B. Mutually exclusive C. Complementary events D. ...

D. independent

17 $y=0$ 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

18 Which of the following is a quadrantal angle

- A. 30°
- B. 45°
- C. 60°
- D. 90°

19 How many arrangements of the letters of the word MISSISSIPPI, taken all together can be made?

20 Question Image

- A. $-2x^3$
- B. $2x^{-3}$
- C. $-2x^{-3}$
- D. $2x^3$