

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If a set S contains "n" elements then P (S) has number of elements	A. 2^n B. 2^{2n} C. $2 \cdot n$ D. n^2
2	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
3	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
4	The distance between the points (0,0) and (x,y) is	A. $x^2 + y^2$ B. x C. y
5	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
6	A square matrix A for which $A^t = A$ is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
7	Question Image	
8	In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then \hat{C} is	A. 69° B. 66° C. 60° D. 63°
9	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
10	Each complex cube root of unity is square of	A. itself B. 1 C. -1 D. the other
11	If $x^4 - 10x^2 - 2x + 4$ is divided by $x + 3$, then the remainder is	A. 1 B. 0 C. 4 D. None of these
12	The equation $x^2 + y^2 + 2gx + 2fy + c = 0$ represents a circle whose centre is :	A. (g,f) B. (-g,-f) C. (2g ,2f) D. (-2f ,-2g)
13	Sum of n terms of a geometric series if $ r < 1$ is	
14	The number of points of intersection of two curves $y = 2 \sin x$ and $y = 5x^2 + 2x + 3$ is	A. 0 B. 1 C. 2 D. None of these
15	Question Image	A. $4x + 1$ B. $4x$ C. $2x^3$ D. none of these
16	Question Image	A. Biconditional B. Implication C. Antecedent

D. Hypothesis

17 The magnitude of a vector can never be

- A. Zero
- B. Negative
- C. Positive
- D. None of these

18 Some of two real numbers is also a real number , this property is called:

- A. Commutative property w.r.t addition
- B. Closure property w.r.t. addition
- C. Associative property w.r.t. addition
- D. Distributive property w.r.t addition

19 π is _____

- A. A complex number
- B. A rational number
- C. A natural number
- D. An irrational number

20 A function $F(x)$ is called even if

- A. $F(x) = F(-x)$
- B. $F(x) = F(-x)$
- C. $F(x) = -F(x)$
- D. $2F(x) = 0$