

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The centroid of a triangle divides each median in the ratio	A. 2 : 1 B. 3 : 1 C. 3 : 2 D. 1 : 1
2	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
3	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
4	Question Image	D. none of these
5	The nth term of an A.P., is $12-4n$. Its common difference is	A. 8 B. 4 C. 4 D. 16
6	The period of $\tan x/7$ is	A. 3π B. 7π C. 15π D. 5π
7	The transpose of a column matrix is a _____	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
8	The exponent of x in 10th term in the expansion of $(a+x)^n$	A. 10 B. 12 C. 11 D. 9
9	An ellipse slides between two lines at right angles to one another. The locus of its centre is :	A. a parabola B. an ellipse C. a circle D. a hyperbola
10	Question Image	A. $a = 4, b = 1$ B. $a = 1, b = -4$ C. $a = 0, b = 4$ D. $a = 2, b = 4$
11	If in a set of real no a is multiplicative identity then	A. $a, a = a^{>2}</sup>$ B. $a, a = 1$ C. $a, a = 0$ D. None of these
12	If p and q are two statements then their biconditional 'p if q' is denoted by	
13	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
14	Question Image	A. 1 B. -1
15	Given X,Y are any two sets such that number of elements in X= 18, number of elements in set Y = 24,and number of elements in set $X \cup Y = 40$,then number of elements in set $x \cap Y =$	A. 3 B. 1 C. 2 D. 4
16	The number of permutation that can be formed from the letters of the word OBJECT is	A. 700 B. 600 C. 720 D. 620
17	If P is a proposition then its negative is denoted by	

18 The discriminant of the quadratic equation $ax^2 + bx + c = 0$ is

- A. $b^2 - 4ac$
B. $b^2 - 4ac$
C. $4ac - b^2$
D. $a^2 - 4ac$

19 The number of divisors of 1029, 1547 and 122 are in

- A. A.P.
B. G.P.
C. H.P.
D. None of these

20 Question Image