

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 100 B. 99 C. 0 D. none of these
2	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
3	The second degree equation of the form $Ax^2 + Bx + C = 0$ 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 $B = 0$
4	The set of points $\{(x,y) y = f(x), \forall x \in \mathbb{R}\}$ is called	A. Relation B. Graph of f C. Function D. All are correct
5	The periods of the function $f(x) = x[x]$ is	A. 1 B. 2 C. Non periodic D. None of these
6	The area between the x-axis the curve $y = 4x - x^2$ is :	A. 32/2 B. 15 C. 18 D. 21
7	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
8	Derivative of strictly increasing function is always	A. Zero B. Positive C. Negative D. Both (A) and (B)
9	$\tan 360^\circ =$ _____	A. -1 B. 0 C. 1 D. Undefined
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	The greatest term in the expansion of $(3+2x)^9$, when $x=1$ is	A. 4th B. 4th and 5th C. 5th D. 6th
12	If $x + y + 1 = 0$ touches the parabola $y^2 = \lambda x$, then λ is equal to	A. 2 B. 4 C. 6 D. 8
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	The set of integer is	A. Finite group B. A group w.r.t addition C. A group w.r.t multiplication D. Not a group
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A rational number B. An irrational number C. An odd number D. An even number

D. A prime number

18 The line $3x - 4y = 0$

- A. Is a tangent to the circle $x^2 + y^2 = 25$
- B. Is a normal to the circle $x^2 + y^2 = 25$
- C. Does not meet the circle $x^2 + y^2 = 25$
- D. Does not pass thro' the origin

19 Question Image

20 If 6th term of a series in A.P, is -2 and 8th term is -8, the first term of the serie is

- A. 13
- B. -13
- C. 18
- D. -10