

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) = x^2 - x$ then $f(2)$ is	A. 4 B. 6 C. 2 D. 0
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 15 B. 15 i C. -15 i D. -15
3	The approximate percentage increase in the volume of a cube if the length of its each edge changes from 5 to 5.02 is	A. 1.2% B. 1.5% C. 0.16% D. 100.16%
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $c = 0$ B. $c = -1$ C. $c = -2$ D. $c = 1$
5	A line joining two distinct points on a parabola is called a _____ of the parabola.	A. Chord B. Tangent C. Lustrum D. directrix
6	The period of the function $\csc x/4$ is	A. $4x$ B. $\pi/4$ C. 8π D. $\pi/8$
7	The sum of 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
8	$(a, b) + (-a, -b) =$	A. (0,0) B. (a, b) C. (-a, -b) D. (1, 1)
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
10	$1 + 2 + 3 + \dots + n =$ _____	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $2x + 2y$ B. $4 - x^{>2}</sup></sup>$ C. $-x/y$ D. x/y
12	The inclination of a line parallel to x-axis is	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a = -1/2, b = -1$ B. $a = 1, b = 2$ C. $a = 2, b = 3$ D. None of above
14	A conditional "if p then q" is denoted by	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
17	$(\sqrt{3} + \sqrt{5}) + \sqrt{7} = \sqrt{3} + (\sqrt{5} + \sqrt{7})$ property used in above is	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t to addition

18 The consecutive terms of a progression are 30, 24, 20. The next term of the progression is

A. $\tan x \tan 2x \tan 3x$

B. $-\tan x \tan 2x \tan 3x$

C. $\tan x \tan 2x - \tan x \tan 3x - \tan 2x \tan 3x$

D. None of these

19 $\tan 3x \tan 2x - \tan x$ is equal to

A. an odd integer

B. an even integer

C. Irrational

D. Prime Number

20 $n^2 - 1$ divisible by 8 when n is