

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	graph of sine function is bounded between lines	A. $y \pm 1 = 0$ B. $x \pm 1 = 0$ C. $x \pm y = 0$ D. None of these
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3×1 B. 1×3 C. 3×3 D. 1×1
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Associative law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
4	Name the property used in $4.1 + (-4.1) = 0$	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. $x ⁻² + c$ D. not possible
6	The period of $\sin x/2 = \cos x/3$ is	A. 2p B. 12p C. 13p D. 7p
7	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set
8	The set $\{-1, 1\}$ is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
9	If $4 \sin^2 \theta = 1$, then values of θ are	
10	With usual notations $b^2 = a^2 + c^2 - 2ac \cos$ is called _____;	A. None of these B. Law of sines C. Law of cosines D. Law of tangents
11	The domain of the function $x/\sqrt{x^2 - 4}$ is given by	A. R B. $R + 2$ C. $[R - (\sqrt{2} </u> </u> > 2)$ D. $R - 4$
12	How many term are there in the A.P, in which $a_1 = 11$, $a_n = 68$, $d = 3$	A. 30 B. 27 C. 20 D. 21
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a = 2, b = 3$ B. $a = 3, b = 2$ C. $a = 2, b = 1, 2$ D. $a = 3, b = 3$
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. 13
15	The number of terms in the expansion of $(a + b)^9$ is	A. 10 B. 11 C. 9 D. 12
16	Domain of $3 \sin x$ is _____	A. $[-3, 3]$ B. R C. Positive real numbers D. None of these
17	$\tan(A - B) =$	

18 If $f(x) = \sin x$, then $f'(x) =$ _____;

- A. $2x \cos x^2$
- B. $\cos x^2$
- C. $\cos \sqrt{x}$
- D. None of these

19 The zero vector is

- A. $[0, 0, 0]$
- B. $[1, 1, 1]$
- C. $[0, 1, 0]$
- D. $[0, 0, 1]$

20 graph of trigonometric function $y = \sec x$ does not meet

- A. x - axis
- B. y -axis
- C. both axis
- D. None of these