

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	How many arrangements of the letters of the word MISSISSIPPI, taken all together can be made?	
3	Sum of all the four fourth roots of unity is	A. 1 B. -1 C. i D. 0
4	Question Image	
5	If $S = \{3, 6, 9, 12, \dots\}$, then	A. $S =$ Four multiples of 3 B. $S =$ Set of even numbers C. $S =$ Set of prime numbers D. $S =$ All multiples of 3
6	A quadratic equation in x is an equation that can be written in the form	A. $ax^2 + b = 0$ B. $ax^3 + b^2 + c = 0$ C. $ax^2 + bx + c = 0$ D. $ax^3 + bx^3 + cx = 0$
7	$\sin 50^\circ - \sin 70^\circ + \sin 10^\circ$ is equal to	A. 1 B. 0 C. $1/2$ D. 2
8	The distance of the point (2,3) from y-axis is	A. 2 B. 3 C. 5
9	Root of the equation $3^{x+1} + 3^{1-x} =$ is	A. 2 B. 1 C. 0 D. -1
10	The function $f(x,y) = ax^2 + bx + c$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
11	Question Image	A. 56 B. 7 C. 8 D. $8/7$
12	Question Image	
13	If (2, 3) is the mid point of (a, 3) and (5, b) then	A. $a = 1, b = -3$ B. $a = -1, b = 3$ C. $a = 1, b = 3$ D. $a = -1, b = -3$
14	nC_2 exists when n is _____	
15	There is no integer n for which $3n$ is	A. Even B. Prime C. Odd D. Real
16	Sine rule for a triangle states that	A. $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ B. $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$ C. $\frac{a}{\sin A} + \frac{b}{\sin B} + \frac{c}{\sin C}$ D. $\frac{2a}{\sin A} = \frac{2b}{\sin B} = \frac{2c}{\sin C}$

17 Z is the set of integers (\mathbb{Z}) is a group with $a * b = a + b + 1$, $a, b \in \mathbb{Z}$. then inverse of a is

- A. -a
- B. a +1
- C. -1-a
- D. None of these

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- D. none of these

19 When rational fraction is separated into partial fractions, the result is

- A. an identity
- B. A fraction
- C. A partial sum
- D. Improper fraction

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- A. *>* π *<* / 2
- B. *>* π *<* / 3
- C. *>* π *<* / 4
- D. *>* π *<*