

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	$i =$	A. $\sqrt{1}$ B. $\sqrt{2}$ C. $\sqrt{-2}$ D. $\sqrt{-1}$
3	Question Image	
4	Question Image	
5	$(7,9) + (3,-5) =$	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)
6	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
7	If $A = \{x/x \text{ is a positive integer and } 4 \leq x < 23\}$, then $A =$	A. {1,2,3,4,5,6,7} B. {4,5,6,.....,22} C. {1,2,3,.....,23} D. {1,2,3,4,5}
8	Question Image	A. Lies between 4 and 7 B. Lies between 5 and 9 C. Has no value between 4 and 7 D. Has no value between 5 and 9
9	$\sin^{-1}[-1/2] =$ _____	
10	The sum of the odd coefficients in the expansion of $(a + x)^4$ is	A. 14 B. 12 C. 8 D. 4
11	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
12	If a, b, c, d, e, f are in A.P., then e-c is equal to	A. $2(c - a)$ B. $2(f - d)$ C. $2(d - c)$ D. $d - c$
13	The parabola $y^2 + 2y + x = 0$ lie in _____ quadrant.	A. First B. Second C. Third D. Fourth
14	The series obtained by adding the terms of a geometric sequence is called	A. Infinite series B. Arithmetic series C. Geometric series D. Harmonic series
15	Onto function is also called	A. Binjective function B. Injective function C. Surjective function D. None of these
16	Only one of the root of $ax^2 + bx + c = 0$, $a \neq 0$ is zero if	A. $c = 0$ B. $c = 0, b \neq 0$ C. $b = 0, c = 0$ D. $b = 0, c \neq 0$
17	If $n \in \mathbb{N}$, then $n(n+3)$ is always	A. Multiple of 3 B. Multiple of 6 C. odd D. even

18 The slope of the normal at (4,3) to the circle $x^2+y^2=25$ is

- A. 3/4
- B. -3/4
- C. 4/3
- D. -4/3

19 $\int x \sin x dx$ is equal to:

- A. $\sin x/x + \cos x$
- B. $\sin x - \cos x/x$
- C. $x \cos x + \sin x$
- D. $-x \cos x + \sin x$

20 $A \cup (A \cap B) =$ -----

- A. B
- B. A
- C. $A \cup B$
- D. None of these