

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) = x^2 - x$ then $f(1)$ is	A. 0 B. 1 C. 2 D. 3
2	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$ then which expression defines the product of z_1 and z_2	A. $36 + (-32)i$ B. $-36 + 32i$ C. $6 + (-11)i$ D. $0, +(-12)i$
3	If $(2, 3)$ and $(2, 5)$ are end points of a diameter of a circle, then the centre of the circle is	A. $(2, 4)$ B. $(4, 8)$ C. $(0, 2)$ D. $(0, -2)$
4	How many arrangements of the letters of the word MISSISSIPPI, taken all together can be made?	
5	Question Image	
6	Range of $\cos \theta$ is	
7	$\sec^{-1} x =$	A. $\cos^{-1} \frac{1}{x}$ B. $\operatorname{cosec}^{-1} \frac{1}{x}$ C. $\cos^{-1}(-x)$ D. $\tan^{-1} x$
8	Question Image	D. none of these
9	The square root of $2i - 20i$ is	A. $\pm(5 - 2i)$ B. $\pm(5 + 2i)$ C. $(5 - 2i)$ D. None of these
10	Question Image	
11	If n is any positive integer then $n! > 2^{n-1}$ for	
12	Question Image	D. none of these
13	Question Image	
14	$a > b \Rightarrow a + c > b + c$ is known as	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
15	Question Image	
16	A relation in which the equality is true for all values of the unknown is called _____	A. An identity B. An equation C. A polynomial D. None of these
17	The proposition $S(k+1)$ is true when _____ is true $\forall k \in \mathbb{N}$	A. $S(n)$ B. $S(k)$ C. $S(1)$ D. $S(k-1)$
18	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
19	Which of the following function form 1 to itself are bi-jective	A. $F(x) = x + 3$ B. $F(x) = x^5$ C. $F(x) = 3x + 2$ D. $F(x) = x^2 + x$
20	The parametric equations of a circle are	