

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The point on $y^2 = 4ax$ nearest to the focus has its abciassae equal to	A. -a B. a C. a/2 D. 0
2	The roots of the equation $2^{2x} \cdot 10 \cdot 2^x + 16 = 0$ are	A. 2, 8 B. 1, 3 C. 1, 8 D. 2, 3
3	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
4	If order of A is $m \times n$, then order of A^t is	A. $m \times m$ B. $n \times n$ C. $m \times n$ D. $n \times m$
5	n different objects can be arranged taken all at a time in _____	A. $(n + 1)!$ ways B. $(n - 1)!$ ways C. $n!$ ways D. n ways
6	The complement of set A relative to universal set U is the set	A. $\{x / x \in A \wedge x \in U\}$ B. $\{x / x \notin A \wedge x \in U\}$ C. $\{x / x \in A \text{ and } x \notin U\}$ D. A-U
7	$\cos(\pi/2-\theta) =$ _____;	A. $\cos\theta$ B. $\sin\theta$ C. $-\cos\theta$ D. $-\sin\theta$
8	Φ set is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
9	The maximum value of the quadratic function $f(x) = 2x^2 - 4x + 7$, is	A. 3 B. 5 C. -3 D. -5
10	Question Image	
11	If the domain of the function $f: x \mapsto 2x^3 + 1$ is $\{-1, 2, 3\}$, the range of the function is	A. $\{3, 2, 5\}$ B. $\{1, 3, 9\}$ C. $\{-1, -2, -3\}$ D. $\{3, 9, 19\}$
12	Which is in the solution set of $4x - 3y < 2$	A. (3, 0) B. (4, 1) C. (1, 3) D. None
13	If $f(x) = x^2$ then $f(2)$ is	A. -2 B. 2 C. 4 D. -4
14	If in a set of real no a is additive identity then	A. $a+a = 2a$ B. $a+a = 1$ C. $a+a = 0$ D. None of these
15	Question Image	
16	$\sin(\pi/2+\theta) =$ _____;	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
		A. $-3 - 2i$

17	Question Image	<p>B. $3 + 2i$ C. $1 + 2i$ D. $1 - 2i$</p>
18	If the lower limit of an integral is a constant and the upper limit is a variable, then the integral is a	<p>A. Constant function B. Variable value C. Function of upper limit D. All</p>
19	If a, b, c are the measures of the sides of a triangle then	
20	The root of the quadratic equation are	<p>A. 3 B. 2 C. 1 D. 4</p>