Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
2	Question Image	
3	Domain of cosec x is _____	
4	The law of consines is	
5	$a.a^{-1} = a^{-1}.a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
6	Question Image	A. 2^x B. $2^x \ln x$ C. $2^x \ln 2$
7	Question Image	A. $(x^3 - 3x^2)^8 + c$ D. $3x^2 - 6x + c$
8	For any integer k, $w^n =$ _____ when n = 3k	A. 1 B. 2 C. 0 D. -4
9	The sum if 1,3,5,7,9........ up to 20 terms is	A. 400 B. 472 C. 563 D. 264
10	Under multiplication, solution set of is	A. Groupoid B. Abelian group C. Semi group D. All of these
11	The domain of $y = \cos^{-1} x$ is	A. $-\infty < x < \infty$ B. $-1 \le x \le 1$ C. $x \le -1$ or $x \ge 1$ D. None of these
12	The value of $\sin^{-1} 24/25$ is equal to	A. $\csc^{-1} 25/24$ B. $\sec^{-1} 24/25$ C. $2 \tan^{-1} 4/5$ D. $2\cos^{-1} 24/25$
13	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
14	0 is a symbol of	A. singleton set B. Empty set C. Equivalent set D. Infinite set
15	Question Image	
16	The domain the function : $f(x) = x^2$ is given by	A. R B. Set of all non-negative Real numbers C. R^{-1} D. None of these
17	If a variable y dependents on a variable x in such a way that each value of x determines exactly one value of y, then we say that	A. x is function of y B. y is a function of x C. y is independent variable D. x is real valued function
18	Question Image	A. 0 B. 1 C. 2 D. 4

19	The first three terms in the expansion of $(1 - x)^{-3}$ are	A. $1 + 3x + 6x^2$ B. $1 - 3x + 6x^2$ C. $-3 - 3x - 6x^2$ D. $1 - 3x - 6x^2$
20	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer