

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$x^2 + x - 5 = 0$ is	A. A polynomial B. An inequality C. An identity D. None
2	A non-homogeneous linear system $AX = B$ has no solution if	A. $ A = 0$ B. $ A \neq 0$ C. Rank (a) = no of variables D. Rank $>$; no of variables
3	The velocity and acceleration at any point t of a particle which moves along straight line $x = 5t - 3$	A. 5,3 B. 5,-3 C. 5,0 D. 10,0
4	The square root of $2i - 20i$ is	A. $+(5 - 2i)$ B. $-(5 + 2i)$ C. $(5 - 2i)$ D. None of these
5	If $A \subseteq B$, and B is a finite set, then	A. $n(A) < n(B)$ B. $n(B) < n(A)$ C. $n(A) \leq n(B)$ D. $n(A) \geq n(B)$
6	(0,1) is in the solution of the inequality	A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 5$ D. $x - 2y < -5$
7	Question Image	
8	Multiplicative inverse of "1" is	A. + 1 B. 0 C. 1 D. None of these
9	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of above
10	The line joining the center of a circle to the midpoint of the chord is	A. Perpendicular to the tangent B. Perpendicular to the normal C. Perpendicular to the chord D. Perpendicular to the chord
11	A fraction in which the degree of the numerator is greater than or equal to the degree of the denominator is called	A. A proper fraction B. An improper fraction C. An equation D. An identity
12	The set of ordered pairs (x,y) such that $ax + by < c$, and (x,y) such that $ax + by > 0$, are called	A. Half planes B. Boundary C. Linear Inequalities D. Feasible regions
13	If a set S contains n elements then P (S) has number of elements	A. 2^n B. 2^{n-1} C. 2.n D. n^2
14	Question Image	
15	$\csc(-\pi/2) =$ _____;	A. 0 B. 1 C. -1 D. Undefined
16	Question Image	A. 1/3 B. 1 C. 3 D. None of these

17	The sum of the roots of the equation $x^2 - 6x + 2 = 0$ is	A. -6 B. 2 C. -2 D. 6
18	The equation of vertical asymptotes of $y = \cos \operatorname{ec} x$ is	A. $x = 0$ B. $y = 0$ C. $x = \infty$ D. $y = \infty$
19	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53° to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
20	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924