

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For the parabola the line through focus and perpendicular to the directrix is called	A. Tangent B. Vertex C. Axis D. None
2	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
3	Question Image	
4	Two circle s1: $x^2 + y^2 + 2x - 2y - 7 = 0$: s2: $x^2 + y^2 - 6x + 4y + 9 = 0$	A. Touch externally B. Touch internally C. Intersects each other D. Do not intersects
5	$[i, j, k]$	A. 0 B. 2 C. 1 D. -2
6	$\cos 60^\circ = \underline{\hspace{2cm}}$	A. 1 B. 2 C. $\frac{1}{2}$ D. 3
7	$\cos(\alpha - \beta) = \cos\alpha\cos\beta + \sin\alpha\sin\beta$ is true for all	A. $\alpha < \beta$ B. $\alpha > \beta$ C. $\alpha = \beta$ D. None of these
8	The equation of the tangent at vertex to the parabola is $y^2 = -8(x - 3)$	A. $y = 0$ B. $x = 3$ C. $x = 1$ D. $x = 5$
9	If $\sin A = \cos A$, $0^\circ < A < 90^\circ$ then A is equal to	A. 1 B. $\frac{1}{2}$ C. 0 D. None of these
10	Trivial solution of homogeneous linear equation is	A. (0, 0, 0) B. (1, 2, 3) C. (1, 3, 5) D. a, b and c
11	(1, 2) is in the solution of the inequality	A. $2x + y \geq 8$ B. $2x + y \leq 6$ C. $2x - y \geq 1$ D. $2x + 3y \leq 2$
12	If a variable y depends 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
13	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45° . The height of the chimney is	
14	There are _____ types of rational fraction	A. Three B. Four C. Five D. Two
15	The $\sqrt{\hspace{1cm}}$ is used for the	A. Positive square root B. Negative square root C. +ve and -ve square root D. None of these

16	Question Image	
17	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers D. The set of whole numbers
18	Question Image	
19	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
20	Question Image	A. 1 B. $\frac{1}{2}$ C. 0 D. None