

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The value of the expression $\sin\theta + \cos\theta$ lies between	
2	The line $3x - 4y = 0$	A. Is a tangent to the circle $x^2 + y^2 = 25$ B. Is a normal to the circle $x^2 + y^2 = 25$ C. Does not meet the circle $x^2 + y^2 = 25$ D. Does not pass thro' the origin
3	$\{x : x \in \mathbb{Z} \text{ and } x < 1\}$ is	A. Singleton set B. A set with two points C. Empty set D. None of these
4	The end points of the major axis of the ellipse are called its	A. Foci B. Vertices C. Co - vertices D. None of these
5	$x = \underline{\hspace{2cm}}$ is in the solution of $2x - 3 < 0$	A. 2 B. -2 C. 3 D. 4
6	The quadratic formula is	
7	Question Image <input style="width: 100%; height: 15px;" type="text"/>	
8	The equation $(\cos p - 1)x^2 + x(\cos p) + \sin p = 0$ in the variable x , has real roots, then p can take any value in the interval	A. $(0, 2\pi)$ B. $(-\pi, \pi)$ C. $(0, \pi)$ D. None of these
9	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
10	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
11	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
12	$x = -1$ is in the solution of the inequality	A. $x + 5 < 0$ B. $2x + 3 < 0$ C. $x > 0$ D. $2x + 3 > 0$
13	Question Image <input style="width: 100%; height: 15px;" type="text"/>	
14	The element range of sequence are called	A. Series B. progression C. Members

D. Terms

15	Question Image	A. Polynomial of degree 0 B. Polynomial of degree 2 C. Quadratic equation D. None of these
16	Question Image	A. 0 B. 1 C. 2 D. 3
17	The equation of the circle with centre (-3, 5) and radius 7 is	A. $(x-3)^2 + (y+5)^2 = 7^2$ B. $(x-3)^2 + (y-5)^2 = 7^2$ C. $(x+3)^2 + (y+5)^2 = 7^2$ D. $(x+3)^2 + (y-5)^2 = 7^2$
18	Question Image	A. 2 b B. 2 a C. 2 ab D. a + b
19	Which of the following integrals can be evaluated	
20	Order (or sense) of an inequality is changed by multiplying or dividing its each side by a:	A. Zero B. one C. negative constant D. Non negative constant