

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A chord passing through the centre of the circle is called	A. the secant of the circle B. the tangent of the circle C. the arc of the circle D. the diameter of the circle
2	Question Image	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
3	The zero vector is	A. [0, 0, 0] B. [1, 1, 1] C. [0, 1, 0] D. [0, 0, 1]
4	Question Image	
5	The identity element of a set X with respect to intersection in P(x) is	A. X B. Does not exist C. \emptyset D. None of these
6	Question Image	A. square root function B. identity function C. linear function D. quadratic function
7	The parabola $y^2 = x$ is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line $y = x$
8	Three numbers are chosen random without replacement from {1, 2, 3, ..., 10}. the probability that minimum of the chosen numbering is 3 or their maximum is 7	A. 7 / 40 B. 5 / 40 C. 11 / 40 D. None of these
9	Question Image	A. 3/8 B. 7/8 C. 1/8 D. None
10	Question Image	A. 1 B. -1 C. 0 D. I
11	If $A(x_1, y_1)$, $B(x_2, y_2)$ and $C(x_3, y_3)$ are the vertices of a triangle then its centroid is	
12	Which of the following is not a unit vector	A. [1, 1, 1] B. [0, 1, 0] C. [0, 0, 1] D. [1, 0, 0]
13	Maximum value of $z = 15x + 20y$ subject to $3x + 4y \leq 12, x, y \geq 0$ is given by	A. 46 B. 60 C. 50 D. 70
14	Question Image	A. 8 C. 4 D. 64
15	What is the number of elements of the power set of { }	A. 0 B. 1 C. 2 D. 3
16	If a_1 and r are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is	A. 0 B. $a ₁ r ⁿ⁻¹$ C. $a ₁ r ⁿ⁺¹$ D. $a ₁ r ⁿ$
		A. y/x - .

17

Question Image

B. $\frac{x}{y}$
C. $\frac{y}{z}$
D. None

18

Question Image

19

Question Image

A. 0
B. 1

20

Question Image