

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The straight line passing through the focus and perpendicular to the directrix of the conic is known as its	A. Tangent B. axis C. Focal chord D. major or manor axis
2	Question Image	
3	Question Image	A. Additive property in R B. Multiplication property in R C. Cancellation property in R D. Distribution property in R
4	Question Image	D. none of these
5	Area of inscribed circle is	A. πR^2 B. πr^2 C. πr^2 D. πr^2
6	$\int \sin(ax+b) dx$ is equal to:	A. $\frac{1}{2a} \cos(ax+b)$ B. $-\frac{1}{a} \cos(ax+b)$ C. $\frac{1}{a} \cos(ax+b)$ D. $\frac{1}{a} \ln(ax+b)$
7	A Geometric Series is divergent only if	A. $ r > 1$ B. $ r \geq 1$ C. $ r = 1$ D. None of these
8	If the intersection of two sets is non-empty, but either is a subset of other are called	A. Disjoint sets B. Overlapping C. Equal sets D. None of these
9	How many arrangements of the letters of the word MISSISSIPPI, taken all together can be made?	
10	Question Image	
11	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
12	If n is a positive integer then n! is	A. $(n-1)(n-2) \dots 3, 2, 1$ B. $n(n-1)(n-2) \dots 3, 2, 1$ C. $n(n-1)(n-2) \dots 3$ D. None of these
13	The quadratic equation $8 \sec^2 \theta - 6 \sec \theta + 1 = 0$ has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
14	The additive identity of real number is	A. 1 B. 2 C. $\frac{1}{2}$ D. 0
15	Question Image	
16	The interval in which $f(x) = x^3 - 6x^2 + 9x$ is increasing	A. $1 < x < 3$ B. $x < 1$ and $x > 3$ C. $x \geq 1$ and $x \leq 3$ D. $-\infty < x < \infty$
17	Question Image	
18	The roots of $px^2 - (p-q)x - q = 0$ are	A. equal B. Irrational C. Rational D. Imaginary

19	The number of combinations of 10 different objects taken 8 objects at a time is	B. 45 C. 55 D. 50
20	The symbol of irrational is	A. W B. N C. Q D. \mathbb{Q}