

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If (0, 0) and (0, -1) are end points of a diameter, then the equation of the circle is	
2	The solution set of $x^2 - 5x + 6 = 0$ is	A. {1, 3} B. {2, 3} C. {1, 2} D. None of these
3	Question Image	
4	If $n \in \mathbb{Z}^+$ then $(a+x)^n$ is a^n	A. Finite series B. Convergent series C. Infinite series D. Divergent series
5	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplication identity C. Associative law of multiplication D. Multiplication inverse
6	How many terms of the A.P 3,6,9,12,15.....must be taken to make the sum 108	A. 8 B. 6 C. 7 D. 36
7	if the value of the sphere, $v = \frac{4}{3}\pi r^2$, then the which of the following statement is true?	A. r is the function of v B. v is the function of r C. π is independent variable D. None of these
8	Question Image	
9	If n is positive integers, then $2^n > 2n+1$, only when	A. $n \leq 3$ B. $n \geq 3$ C. $n \leq 2$ D. $n \leq 1$
10	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
11	For any integer k, $w^n = \text{_____}$ when $n = 3k$	A. 1 B. 2 C. 0 D. -4
12	Question Image	
13	Question Image	
14	Question Image	
15	The slope of the normal at the point $(at^2, 2at)$ of the parabola $y^2 = 4ax$ is	A. $1/t$ B. t C. $-t$ D. $-1/t$
16	Question Image	A. 3 B. 1 C. 2 D. 4
17	Question Image	
18	The graph of $y > 0$ is the upper - half of:	A. y-axis B. x-axis C. 1st and 4th quadrant D. 2nd and 3rd quadrant
19	A subset of set of complex number whose elements are of the form $(a,0)$ is called	A. Real number B. Complex number C. Rational number D. Irrational number

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The axis of the parabola $y^2 = 4ax$ is

- A. $X = 0$
- B. $Y = 0$
- C. $X = y$
- D. $X = -y$