

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The parabola $y^2=4ax$ open up if	A. $a < 0$ B. $a \neq 0$ C. $a > 0$ D. All are incorrect
2	Question Image <input type="text"/>	
3	The line $y = 2x + c$ is a tangent to the parabola $y^2 = 16x$ if c equals	A. -2 B. -1 C. 0 D. 2
4	The point P (5,8) and the origin lie on the side of the line $3x + 7y + 15 = 0$	A. Same side B. P above and origin below C. Opposite side D. P below and origin above
5	A function $F(x)$ is called even if	A. $F(x) = F(-x)$ B. $F(x) = F(-x)$ C. $F(x) = -F(x)$ D. $2F(x) = 0$
6	$1+3x+6x^2+10x^3+....=$	A. $(1+x)^{-3}$ B. $(1-x)^{-2}$ C. $(1-x)^{-3}$ D. $(1+x)^{-2}$
7	The line $y = 4x + c$ touches the hyperbola $x^2 - y^2 = 1$ if and only if	A. $c = \pm\sqrt{2}$ B. $c = 0$ C. $c = \pm\sqrt{17}$ D. $c = \pm\sqrt{15}$
8	Question Image <input type="text"/>	A. 0 B. 1 C. -1 D. undefined
9	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
10	When a selection of object is made without paying regard to the order of selection, it is called	A. Sequence B. Series C. Combination D. Permutation
11	Question Image <input type="text"/>	A. 1 B. 5 C. 7 D. 9
12	Question Image <input type="text"/>	
13	If $x + y + 1 = 0$ touches the parabola $y^2 = \lambda x$, then λ is equal to	A. 2 B. 4 C. 6 D. 8
14	Question Image <input type="text"/>	
15	$(A \cap B)^c =$	A. $A \cap B$ B. $(A \cup B)^c$ C. $A^c \cup B^c$ D. Φ
16	Question Image <input type="text"/>	A. A B. A' C. U D. $A \cap A'$
17	$w^{11} =$ _____	A. 0 B. 1 C. w D. w^{11}

18 Tangent isfunction

- A. Inverse
- B. one-one
- C. in-to
- D. Periodic

19 Question Image

20 Question Image

- A. An empty set
- B. Universal set
- C. A singleton set
- D. None of these