

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The equation of the parabola with directrix $x = 2$ and the axis $y = 0$ is	A. $y^2 = 8x$ B. $y^2 = -8x$ C. $y^2 = 4x$ D. $y^2 = -4x$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	Name the property used in $4 + 9 = 9 + 4$	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
4	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
5	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
6	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
7	The 10th common term between the series $3+7+11+\dots$ and $1 + 6 + 11 + \dots$ is	A. 191 B. 193 C. 211 D. None of these
8	Coordinates of the focus of the parabola $x^2 - 4x - 8y - 4 = 0$ are:	A. (0,2) B. (0,1) C. (2,0) D. (1,2)
9	The number of proper subset of $A = \{a,b,c,d\}$ is	A. 3 B. 6 C. 8 D. 15
10	The liner equation $ax + by = c$ is called _____ of the inequality $ax + by > c$ .	A. Associated equation B. Non-associated equation C. disjoint equation D. Feasible equation
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	$3j . k x i$	A. 0 B. 1 C. 3 D. 9
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	$\forall x,y \in \mathbb{R}$ and $x > 0, y > 0$ , if $x > y$	D. None of these
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these

A.  $\pi/2$   
 B.  $\pi$

18

Question Image

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19

Question Image

20

The formula  $a_n = a + (n-1)d$  for an A.P is called

- A. nth term of an A.P
- B. Sum of first n terms
- C. A,M between a and b
- D. None of the above