

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The polar form of complex number $x \neq 0$ is	A. $r \cos \theta + i r \sin \theta$ B. $r \cos \theta + i r \sin \theta$ C. $\cos \theta + i \sin \theta$ D. $i \cos \theta + i \sin \theta$
2	In quadratic equation $f(x) = ax^2$ , if $a > 0$ , then the graph of parabola	A. Opens up B. Opens down C. close up D. symmetric w.r.t.x.axis
3	Question Image	A. a B. 2a C. 3a D. 4a
4	The roots of the equation $x^2 + 6x - 7 = 0$ , are	A. 1 B. 2 C. 1 and -7 D. -7
5	A relation in which the equality is true for all values of the unknown is called _____	A. An identity B. An equation C. A polynomial D. None of these
6	Question Image	A. images B. pre-images C. constants D. none of these
7	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
8	$\forall x, y, z \in \mathbb{R}$ and $z \neq 0$ , then	A. $x > y \Rightarrow xz > yz$ B. $x < y \Rightarrow xz < yz$ C. $x < y \Rightarrow xz > yz$ D. None of these
9	The multiplicative inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
10	Question Image	
11	Corner point of the system $x - y \leq 2, x + y \leq 4, 2x - y \leq 6, x \geq 0, y \geq 0$	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
12	A relation in which the equality is true only for some values of the unknown is called	A. An identity B. An equation C. A polynomial D. None
13	$150^\circ =$ _____	
14	Question Image	A. I and II quadrants B. I and III quadrants C. II and III quadrants D. II and IV quadrants
15	Two quadratic equation in which $xy$ term is missing and the coefficients of $x^2$ and $y^2$ are equal, give a linear equation by _____	A. Addition B. Subtraction C. Multiplication D. Division
16	Question Image	D. none of these
17	$\sin^2 \pi/6 + \sin^2 \pi/3 + \tan^2 \pi/4 =$ _____;	A. 1 B. 2 C. 3

18 The set of all positive even integers is

- A. Not a group
- B. A group w.r.t subtraction
- C. A group w.r.t division
- D. A group w.r.t multiplication

19 The geometrical representation of a linear function is

- A. Circle
- B. Parabola
- C. Straight line
- D. None of these

20 Question Image