


## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Optimize means _____ a quantity under certain constraints	A. Minimize B. Maximize C. Maximize or minimize D. None of these
3	In polar form of complex number $r =$	
4	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thirce C. Twice D. None of these
5	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
6	$\pi$ is the ration of	A. Area of a circle to its diameter B. Area of a circle to its radius C. Circumference of a circle to its diameter D. Circumference of circle to its radius
7	The roots of the equation $x^2 + 6x - 7 = 0$ , are	A. 1 B. 2 C. 1 and -7 D. -7
8	Question Image	B. A C. A' D. U
9	Geometrically the modulus of a complex number represents its distance from the	A. Point (1,0) B. Point (0,1) C. Point (1,1) D. Point (0,0)
10	E-radius corresponding to $\angle B$ is	
11	$2x + 3y > 4$ is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
12	Question Image	A. Set of whole number B. Rational Numbers C. Complex numbers D. Whole numbers
13	Question Image	
14	The multiplicative inverse of -1 in the set $\{1, -1\}$ is	A. 1 B. -1 C. +1 D. 0
15	If the roots of $ax^2 - bx - c = 0$ change by the same quantity, then the expression in a, b, c that does not change is	
16	The line through the focus and perpendicular to the directrix is called _____ of the parabola	A. axis B. focal chord C. tangent D. latus rectum
17	The are of the circle centred at ( 1 , 2) and passing through ( 4 , 6) is:	A. $10\pi$ B. $25\pi$ C. $5\pi$ D. $25/2\pi$
18	If $b^2 - 4ac = 0$ then the roots of the equation are	A. Real and distinct B. Real and equal C. Imaginary and distinct D. Imaginary and equal

18. If  $x^2 + 4x + 4 = 0$  then the roots of the equation are

- C. Imaginary
- D. None of these

19. 

20. If  $a$  is any real number and  $a = a$  is called

- A. symmetric property
- B. Trichotomy Properties
- C. Transitive Property
- D. Reflexive Properties