

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
2	Arithmetic mean between a and b is	
3	Each point of the feasible region is called	A. Solution B. feasible solution C. Both a & b D. None
4	The radius of the circle $x^2 + y^2 - 6x + 4y + 13 = 0$ , is	A. 1 B. 2 C. 0 D. None of these
5	The roots of $ax^2+bx+c=0$ are	A. Rational $\Leftrightarrow b^2 - 4ac \geq 0$ B. Irrational $\Leftrightarrow b^2 - 4ac > 0$ C. Real $\Leftrightarrow b^2 - 4ac \neq 0$ D. Rational $\Leftrightarrow b^2 - 4ac = 0$
6	The line $y = 4x + c$ touches the hyperbola $x^2 - y^2 = 1$ if	
7	The set $\{a, b\}$ is	A. Infinite set B. Singleton set C. Two points set D. None
8	A function from X to Y is written as	B. $f : X \text{ to } Y$ D. $f : Y \text{ to } Y$
9	If a, b, c are in AP., a, b, c are in G.P. then $A, m^2b, c$ are in	A. A.P. B. G.P. C. H.P. D. None of these
10	If $f(x) = 2x+1$ then $f \circ f(x) =$ _____;	A. $4x+3$ B. $2x+3$ C. $4x+1$ D. None of these
11	Question Image <input style="width: 200px; height: 20px;" type="text"/>	A. An empty set B. Universal set C. A singleton set D. None of these
12	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
13	The roots of $px^2 - (p-q)x - q = 0$ are	A. equal B. Irrational C. Rational D. Imaginary
14	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
15	If the function $y=2x-3$ , what is the preimage of 11?	A. 11 B. 7 C. 5 D. 2
16	Question Image <input style="width: 200px; height: 20px;" type="text"/>	
17	If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is	
18	Question Image <input style="width: 200px; height: 20px;" type="text"/>	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]

19 The mid point of the line segment joining the points (3,-1) and (-3,1) is

- A. (3,-1)
- B. (0,0)
- C. (2,2)
- D. (4,4)

20 

- D. none of these