


## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The product of complex numbers (a,b) and (c,d) is	A. (ac, bd) B. (ac-bd, ad+bc) C. (ab,cd) D. (ac+bd,ad-bc)
2	Onto function is also called	A. Binjective function B. Injective function C. Surjective function D. None of these
3	Question Image	
4	Which is a proper rational fraction	
5	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
6	If l, m, n are the d.c.'s of a line, then	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 + m^2 + n^2 = 1$ C. $l + m + n = 1$ D. $l = m = n = 1$
7	Question Image	
8	Question Image	
9	Question Image	
10	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)
11	If $a^2 = b^2$ then	A. $a = b$ B. $a+b = 1$ C. $ a+b  = 0$ D. None
12	Question Image	
13	Two matrices A and B are conformable for the product AB if	A. Both A and B are square B. Both A and B are symmetric C. Number of rows of A = number of columns of B D. Number of columns of A = number of rows of B
14	l is not	A. Real number B. Natural number C. Prime Number D. Whole Number
15	The additive inverse of $\frac{2}{3}$ is	A. $\frac{3}{2}$ B. $-\frac{2}{3}$ C. $-\frac{3}{2}$ D. 0
16	Question Image	A. $4x + 1$ B. $4x$ C. $2x^{>3}</sup>$ D. none of these
17	If the sum of even coefficients in the expansion of $(1+x)^n$ is 128 then	A. $n=7$ B. $n=9$ C. $n=8$ D. None
18	The second degree equation $2x^2 - xy + 5x - 2y + 2 = 0$ represents	A. Circle B. Hyperbola C. Ellipse D. Pair of straight lines

19	$\sec(-360^\circ) = \underline{\hspace{2cm}}$	A. 0 B. 1 C. 2 D. 3
20	Question Image 	A. 0 B. 1 C. 2 D. 4