

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Range of $\sec x$ is _____	A. [-1, 1] B. R C. Negative real numbers D. $R = \{x \mid -1 \leq x \leq 1\}$
2	Question Image	
3	Sum of n terms of a geometric series if $ r  < 1$ is	
4	The slope of the normal at $(5 \cos \theta, 5 \sin \theta)$ to the circle. $x^2 + y^2 = 25$ is:	A. $\tan \theta$ B. $\cos \theta / \sin \theta$ C. $-\cot \theta$ D. $-\tan \theta$
5	The sum even binomial coefficient of $(3+2x)^5$ is _____ term	A. 16 B. 30 C. 8 D. 32
6	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. All integers D. Irrational numbers
7	The point on $y^2 = 4ax$ nearest to the focus has its abscissa equal to	A. -a B. a C. a/2 D. 0
8	$f(x) = ax + b$ will be an identity function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
9	The number of permutations of n objects of which there are $n_1$ like of one kind, $n_2$ like of the second kind and $n_3$ like objects of third kind are	
10	If C is the mid point of AB and P is any point outside AB, then	
11	The roots of $ax^2 + bx + c = 0$ are always unequal if	A. $b^2 - 4ac = 0$ B. $b^2 - 4ac \neq 0$ C. $b^2 - 4ac \geq 0$ D. $b^2 - 4ac \leq 0$
12	$x = 1$ is in the solution of the inequality	A. $x + 1 \geq 0$ B. $x - 2 \geq 0$ C. $3x - 1 \leq 0$ D. $x + 2 \leq 0$
13	Question Image	B. $x < -2$ D. not possible
14	Question Image	
15	Question Image	
16	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)
17	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
18	Question Image	D. none of these
19	Which of the vectors have opposite direction?	
20	Which of the following is skew symmetric matrix	