

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following is not a solution of system of inequalities $2x - 3y \leq 6, 2x + y \geq 2, x + 2y \leq 8, x \geq 0, y \geq 0$	A. (1,0) B. (0,4) C. (3,0) D. (8,0)
2	Question Image	D. none of these
3	If $x - 1$ is a factor of $x^4 - 5x^2 + 4$ then other factor is	A. $(x + 2)^2(x - 1)$ B. $(x + 2)(x - 1)^2$ C. $(x + 2)(x^2 - x - 2)$ D. $(x + 2)^2(x - 1)^2$
4	If you are looking a bird in the tree from the ground then the angle formed is called angle of _____;	A. Elevation B. Depression C. Right angle D. None of these
5	The inclination of a line parallel to y-axis is	
6	Question Image	A. I and II quadrants B. I and III quadrants C. II and III quadrants D. II and IV quadrants
7	If $f(x) = x^3 - 2x^2 + 4x - 1$ , then $f(-2) = ?$	A. 0 B. -25 C. 5 D. 45
8	Question Image	
9	Every set is an improper subset of	A. Empty set B. Equivalent set C. Itself D. Singleton set
10	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)
11	Question Image	A. $100x^{99}$ B. $100x^{101}$ C. $-99x^{99}$ D. $-100x^{101}$
12	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
13	Question Image	
14	If $\sin x + \sin^2 x = 1$ , then the value of $\cos^{12} x + 3\cos^{10} x + 3\cos^8 x + \cos^6 x + 2\cos^4 x + \cos^2 x - 2$ is equal to	A. 0 B. 1 C. 2 D. $\sin^2 x$
15	If the vertex of the parabola is the origin and directrix is $x + 5 = 0$ . then its latus rectum is:	A. 10 B. 5 C. 0 D. 20
16	Question Image	D. none of these
17	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
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

Question Image

20

The difference of two consecutive terms of an A.P. is called \_\_\_\_\_

- A. General term
- B. Common ratio
- C. Common difference
- D. None of these