

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
3	If for the matrix A, $A^5 = 1$ , then $A^{-1} =$	A. $A^2$ B. $A^3$ C. A D. None of above
4	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the probability that the drawn balls are of different colours is	A. $1 / 66$ B. $3 / 66$ C. $19 / 66$ D. $47 / 66$
5	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
6	Question Image	A. A parabola B. An ellipse C. A hyperbola D. A circle
7	$A = [3]$ is a/an	A. Square matrix B. Scalar matrix C. Diagonal matrix D. Identity matrix
8	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
9	The surface generated by lines, consists of two parts, called:	A. vertex B. apex C. nappes D. axis
10	Question Image	
11	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
12	The roots of $px^2 - (p-q)x - q = 0$ are	A. equal B. Irrational C. Rational D. Imaginary
13	Name the property used in $4 + 9 = 9 + 4$	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
14	Question Image	
15	Question Image	
16	The distance between two points P( $x_1, y_1$ ) and Q ( $x_2, y_2$ ) is	A. Set of real numbers B. Rational
17	The Domain of $y = \sin x$ is _____	C. Irrational no. D. None of above
18	$x =$ _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4

19

Question Image

20

Identity w.r.t intersection in a power set of any set is

A.  $\emptyset$

B. Set itself

C. Singleton set

D.  $\{0\}$