

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A disjunction of two statement p and q is true	A. p is false B. q is false C. Both p and q are false D. One of p and q is true
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 120 B. 5 C. 4 D. 6
5	If $ax + bx + c = 0$ is satisfied by every value of x, then	A. $b = 0, c = 0$ B. $c = 0$ C. $b = 0$ D. $a = b = c = 0$
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t. to addition
7	1 degree = _____	A. 0.00175 rad B. 0.175 rad C. 0.0175 rad D. 1.75 rad
8	The three consecutive numbers a, $\sqrt{ab}$ , b are in	A. G.P B. H.P C. G.M D. None of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 20 C. 90 D. 80
10	Equation of parabola with focus F(-3,1) directrix $x=3$ is	A. $(y - 1)^2 = -12x$ B. $(y - 1)^2 = 4x$ C. $(x + 3)^2 = 4a(y - 1)$ D. $y^2 = -12(x - 1)$
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. perpendicular vectors B. parallel vectors C. concurrent vectors D. none of these
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. -1
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	The set of first elements of the ordered pairs in a relation is called its	A. domain B. range C. relation D. function
15	The general value of $\theta$ satisfying the equation $2 \sin^2 \theta - 3 \sin \theta - 2 = 0$ is	
16	The integral of $3x^5 dx$ is:	A. $15 x^{<sup>4</sup>}$ B. $x^{<sup>6</sup>}/2$ C. $1/6 x^{<sup>5</sup>}$ D. $x^{<sup>5</sup>}/\ln 3$
17	A sequence of number whose reciprocals form an arithmetic sequence is called	A. Geometric sequence B. Arithmetic series C. Harmonic sequence D. Harmonic series

18 Question Image

19 What is the number of elements of the power set of  $\{0, 1\}$

- A. 1
- B. 2
- C. 3
- D. 4

20 The equation of the parabola with directrix  $x = 2$  and the axis  $y = 0$  is

- A.  $y^2 = 8x$
- B.  $y^2 = -8x$
- C.  $y^2 = 4x$
- D.  $y^2 = -4x$