

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$\forall x \in (a,b), f(x)$ is increasing if	A. $f'(x) > 0$ B. $f'(x) < 0$ C. $f''(x) > 0$ D. $f''(x) = 0$
2	For all points (x,y) in second quadrant	A. $x > 0, y < 0$ B. $x < 0, y > 0$ C. $x < 0, y < 0$ D. $x < 0, y > 0$
3	The mid point of the line segment joining the points A(3,1) and B(-2,-4) is	A. (1, -3)
4	Name the property used in $4.1 + (-4.1) = 0$	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A B. A' C. U D. A A'
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Two real roots B. Two positive roots C. Two negative roots D. One positive and one negative root
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	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
9	The system of measurement in which the angle is measured in degrees, minutes and seconds is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
10	The line l is horizontal if	A. m is undefined B. $m=0$ C. $m=1$ D. $m=0-1$
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. identify function
13	Domain of $\cot \theta$ is	
14	If (0,4) and (0,2) are vertex and focus of the parabola respectively, the the equation of the parabola is:	A. $x^2 = 4y - 32$ B. $x^2 = 8y - 32$ C. $y^2 = 16x$ D. $x^2 + 8y = 32$
15	The equation $ x + 4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $n^r + 1$ B. $n^{r+1} + 1$ C. $n^{r+1} + 1$ D. None
17	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these

18  $120^\circ =$  \_\_\_\_\_

19 Question Image

20 Which of the following sets is finite

- A. The set of natural numbers between 3 and 10
- B. The set of rational numbers between 3 and 10
- C. The set of real numbers between 0 and 1
- D. The set of rational numbers between 0 and 1