

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Fundamental law is	
2	Question Image	B. 1 C. -1
3	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
4	Roots of the equation $9x^2 - 12x + 4 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
5	Question Image	
6	Question Image	
7	$8 \cdot 7 \cdot 6 \cdot 5$ in factorial form is	
8	No term of a harmonic sequence can be	A. 0 B. 1 C. 2 D. 3
9	What is the period of $\sin 2x/3 \cos 4x$ ?	A. $\pi$ B. $2\pi$ C. $\pi/2$ D. $\pi/3$
10	The degree of differential equation is the power of the	A. Lowest order derivative B. Highest order derivative C. Integral D. All are correct
11	$n(n-1)(2n-1)$ , for all natural numbers $n$ , is divisible by	A. 12 B. 6 C. 2 D. 18
12	$\tan h x =$ _____	
13	Question Image	A. 0 B. 1 D. -1
14	Root of the equation $3^{x-1} + 3^{1-x} =$ is	A. 2 B. 1 C. 0 D. -1
15	The points $(5, -4, 2), (4, -3, 1), (7, -6, 4), (8, -7, 5)$ are vertices of a	A. Square B. Parallelogram C. Rectangle D. Rhombus
16	Question Image	D. None of these
17	Question Image	A. -1 B. 0 C. 1 D. undefined
18	Question Image	A. $2x + 2y$ B. $4 - x^{>2<sup>/sup></sup>$ C. $-x/y$ D. $x/y$
19	Period of $3 \sin x$ is _____	
20	Find the geometric mean between 4 and 16	

