

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The order of the matrix $\begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$ is	A. 1×1 B. 3×3 C. 3×1 D. 1×3
2	Question Image	
3	The eccentricity of the conic $9x^2 - 16y^2 = 144$ is	A. $4/5$ B. $5/4$ C. $4/3$ D. $3/4$
4	An equation which hold good for all values of the variables is called	A. Identity B. fraction C. mixed form D. Partial equation
5	The additive inverse of $2/3$ is	A. $3/2$ B. $-2/3$ C. $-3/2$ D. 0
6	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
7	The root of the quadratic equation are	A. 3 B. 2 C. 1 D. 4
8	Question Image	
9	Which of the following us a scalar	A. displacement B. velocity C. acceleration D. density
10	The direction cosines of any normal to the xy-plane are	A. $\langle 1, 0, 0 \rangle$; B. $\langle 0, 1, 0 \rangle$; C. $\langle 1, 1, 0 \rangle$; D. $\langle 0, 0, 1 \rangle$;
11	The domain of the function $y = \sin x$, is	A. $-\pi/2 \leq x \leq \pi/2$ B. $\pi/2 \leq x \leq \pi$ C. $-2\pi \leq x \leq 2\pi$ D. $-1 \leq x \leq 1$
12	$w^4 =$ _____	A. 0 B. 1 C. w D. w^{20}
13	Question Image	
14	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thrice C. Twice D. None of these
15	Question Image	
16	The set of complex numbers forms a group under the binary operation of	A. Addition B. none of these C. Division D. Subtraction
17	$\sqrt{2}$ is a number	A. Rational B. Irrational C. Even D. Odd
		A. 3

18 The maximum value of $12 \sin \theta - 9 \sin^2 \theta$ is x

- B. 4
- C. 5
- D. None of these

19 If $b^2 - 4ac$ is positive then the roots of the equation are

- A. Real
- B. Imaginary
- C. Positive
- D. Negative

20 