

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Rank of matrix $\begin{bmatrix} 1 & 3 & 5 & 0 \end{bmatrix}$ is	A. 1 B. 3 C. 2 D. 4
2	Sum of two quantities is at least 20 is denoted by	A. $x + y = 20$ B. $x + y \geq 20$ C. $x + y \neq 20$ D. $x + y \leq 20$
3	Roots of the equation $x^2 - x = 2$ are	A. $\{2, -1\}$ B. $\{1, 0\}$ C. $\{2, 1\}$ D. $\{-2, 1\}$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. The law of sines B. The law of cosines C. The law of tangents D. None of these
5	If c is a constant number and if f is the function defined by the equation $f(x) = c$ for all values of x , then f is differentiable at every x and f' is defined by the equation $f'(x) =$	A. f B. 1 C. C D. 0
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	The roots of $ax^2 + bx + c = 0$ are	A. Rational $\Leftrightarrow b^2 - 4ac \geq 0$ B. Irrational $\Leftrightarrow b^2 - 4ac > 0$ C. Real $\Leftrightarrow b^2 - 4ac \neq 0$ D. Rational $\Leftrightarrow b^2 - 4ac = 0$
8	The 7th term of $(3^8 + 6^4x)^{11/4}$ is	A. $-19217/3 x^{6/3}$ B. $189/2 6^{4/4} x$ C. $2227/12 x^{3/3}$ D. $-19712/3 x^{6/3}$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $2x \cos x^2$ B. $2 \sin x \cos x$ C. $-\sin x^2$ D. $2x \sin x^2$
12	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. $y^2 = -12(x - 1)$
13	Period of Tangent function is	A. 0° B. π C. 2π D. 2
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these A. Even

15	Question Image	B. Odd C. Prime D. None of these
16	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
17	The additive inverse of $\frac{2}{3}$ is	A. $\frac{3}{2}$ B. $-\frac{2}{3}$ C. $-\frac{3}{2}$ D. 0
18	Question Image	A. Right angled B. Obtuse angled C. Isosceles D. Equilateral
19	64. A point (x, y, z) moves parallel to xy plane. Which of the three variables x, y, z remain fixed?	A. z B. x C. y D. x and y
20	The symbol of irrational is	A. W B. N C. Q D. \mathbb{Q}