

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The angle of depression of a point situated at a distance of 70 meters from the base of a tower is 45° . The height of the tower is	A. 70 m B. 85 m C. 35 m D. None of these
2	An unbiased die is thrown. Then the probability of getting a prime is	A. $\frac{1}{2}$ B. $\frac{2}{3}$ C. $\frac{3}{4}$ D. None of these
3	Question Image	
4	The function discontinuous at $x = 0$ is (I) $\tan x$ (II) $\cot x$ (III) $\sec x$ (iv) $\operatorname{cosec} x$	A. I & III B. I & IV C. II & IV D. II & III
5	Question Image	
6	The inclination of a line parallel to x-axis is	
7	Range of $\sec \theta$ is	A. $Z - \{x \mid -1 \leq x \leq 1\}$ B. $W - \{x \mid -1 \leq x \leq 1\}$ C. $R - \{x \mid -1 \leq x \leq 1\}$ D. R
8	A triangle which is not right angle is called _____ triangle	A. acute B. Obtuse C. Right D. Oblique
9	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	A. $\sqrt{5}$ B. $\sqrt{7}$ C. $-1 - 2i$ D. $\sqrt{3}$
10	Question Image	
11	A sequence of number whose reciprocals form an arithmetic sequence is called	A. Geometric sequence B. Arithmetic series C. Harmonic sequence D. Harmonic series
12	The cube roots of 8 are	
13	The equation of the line perpendicular to x- axis and passing through $(-5, 3)$ is	A. $y - 3 = 0$ B. $x + 3 = 0$ C. $y - 3 = \infty$ D. $x + 5 = 0$
14	Question Image	
15	The corner point of the boundary lines, $x - 2x$ $x + 2y = 10$ is:	A. (8,1) B. (1,8) C. (6,10) D. (3,5)
16	The fifth term of an A.P. Whose first term is 5 and common difference is 3, is	A. 20 B. 17 C. 25 D. 30
17	Question Image	A. 3×2 B. 2×3 C. 3×3 D. 2×2
18	$(x-1)$ is a factor of	A. $2x^3 - 3x^2 + 9$ B. $2x^3 - 5x - 8$ C. $48x^2 - 46x - 9$ D. $x^9 - 1$

19

$(x + 2)^2 = x^2 + 4x + 4$ is

- A. A linear equation
- B. A cubic equation
- C. A quadratic equation
- D. None

20

The center of the sphere which passes thro' $(a, 0, 0)$, $(0, b, 0)$, $(0, 0, c)$ and $(0, 0, 0)$ is