

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A matrix in which the number of rows is not equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
2	Question Image	
3	A square matrix $A = [a_{ij}]$ is upper triangular when	A. $c_{ij} = 0$ B. $b_{ij} = 0$ C. $a_{ij} = 0$ for all $i > j$ D. $d_{ij} = 0$
4	Question Image	A. 6 C. 20 D. 0
5	There is no integer n for which 3^n is	A. Odd B. even C. Natural D. Prime
6	Question Image	A. 0 B. -1 C. 1 D. not defined
7	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
8	Question Image	
9	The equation of motion of a stone thrown vertically up wards is $s = ut - 4.9t^2$ the maximum height attained by it =	
10	The equation of line passing through intersection of line $x = 0$ and $y = 0$ and the point $(2,2)$ is	A. $y = x$ B. $y = x - 1$ C. $y = x + 1$ D. $y = x + 1$
11	for $n \in \mathbb{N}$, $3^{2n} + 7$ is divisible by	A. 7 B. 8 C. 9 D. 10
12	In a triangle if $\alpha > 45^\circ, \beta > 30^\circ$ then γ cannot be	A. 90° B. 100° C. 10° D. 120°
13	Question Image	A. (g, f) B. $(-g, f)$ C. $(g, -f)$ D. $(-g, -f)$
14	Question Image	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
15	If the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ passes through the origin then	A. $c = 0$ B. $c = -1$ C. $c = -2$ D. $c = 1$
16	Out of 10, 000 families with 4 children each, the number of families all of whose children are daughters is	A. 375 B. 500 C. 625 D. 150
17	Question Image	

18 If $|ai + (a+1)j + 2k| = 3$ then value of a is

- B. -1,-2
- C. 1,-2
- D. -1,2

19 

20 If the lines $2x-3y-1=0$, $3x-y-5=0$ and $3x+py+8=0$ meet at a unique point then

- A. $p = -14$
- B. $p = -1$
- C. $p = 0$
- D. $p = 12$