

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A diagonal matrix in which the diagonal elements are equal is called a	A. Null matrix B. Identity matrix C. Scalar matrix D. Row matrix
2	A die is thrown, the probability that the dots on the top are prime numbers or odd numbers is	A. 1/2 B. 2/3 C. 1/3 D. 2/5
3	If a = 2i +2j, b= 3i -j and c=4i +5j, the 3b -a-2c =	Ai -15j B. i-15j C. i-3j D. None of these
4	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
5	Three integers are chosen at random from the first 20 integers. Then probability that their product is even, is	A. 2 / 19 B. 3 / 29 C. 17 / 19 D. 4 / 19
		A. 0
6	Question Image	B. 3 C. 9
		C. 9 D3
7	Additive inverse of - a - b is	A. a Ba + b C. a - b D. a + b
8	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
9	Given X,Y are any two sets such that number of elements in set $X = 28$, number of elements in set $Y = 28$, and number of elements in set $X \cup Y = 54$, then number of elements in set $X \cap Y = 54$.	A. 4 B. 3 C. 2 D. 1
		A. 1
10	Question Image	B1 C. 5
		D. 2
11	Question Image	
12	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
13	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B1 C. +-1 D. 0
14	The roots of the equation ax^2 + bx + c = 0 are real and equal if	A. b ² - 4ac < 0 B. b ² - 4ac = 0 C. b ² - 4ac > 0 D. None of these
15	If $A(x_1,y_1)$, $B(x_2,y_2)$ and $C(x_3,y_3)$ are the vertices of a triangle then its centroid is	
16	An A.P. consists of n(odd terms) and its middle term is m. then the sum of the A.P. is	A. 2 mn B. 1/2 mn C. mn D. mn ²
		A 125

17	How many numbers are there between 103 and 750 which are divisible by 6	B. 107 C. 108 D. 113
18	Question Image	A. A B. B C. A' D. None of these
19	$\forall x, y \in R$, either x = y or x > y or x < y is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
20	The n numbers A_1,A_2,A_3,A_n are called an arithmetic means between a and b if $a.A_1,A_2,A_3A_n$, b is	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence