Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Maximum value of z =15x +20y subject to 3x+ 4y≤ 12,x,y≥ 0 is given by	A. 46 B. 60 C. 50 D. 70
2	A vector with magnitude one is called	A. constant vector B. unit vector C. zero vector D. null vector
3	The distance of the points (3, 4, 5) from y-axis is	
4	Question Image	
5	Question Image	
6	$\cos\theta/2 =$	
7	If n is any positive integer then 3 + 6 + 9 + ...+ 3n = _____	
8	Question Image	A. 1 B. 0 C. 3 D. -3
9	The number of terms in the expansion of $(a + x)^{12}$ is	A. 13 B. 12 C. 11 D. 10
10	Question Image	A. $1 + \tan^2 x + c$ B. tan x + c C. -tan x + c D. cot x + c
11	The three consecutive numbers a,√ab,b are in	A. G.P B. H.P C. G.M D. None of these
12	Question Image	A. n < 8/5 B. n < 5/8 C. |n| < 8/5 D. |n|>8/5
13	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule for fractions D. Rule for quotient of fractions
14	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
15	Question Image	A. 0 B. 1 C. 2 D. 1/2
16	The first three terms in the expansion of $(1 + x)^3$ are	A. $1 + 3x +6x^2$ B. $1- 3x + 6x^2$\ C. $-3 -3x -6x^2$ D. $1- 3x -6x^2$
17	Which one is quadrantal angle	A. 8181710° B. 2345° C. -8181180° D. -2344°
18	Question Image	A. A B. B C. U D. None of the

| 19 | The points (5, 2, 4)(6, -1, 2) and (8, -7, k) are collinear if k is equal to | A. -2
B. 2
C. 3
D. -1 |
| 20 | Question Image | |