Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. cos x B. sec x tan x C. sec^{2}x D. -cosec^{2}x
3	Question Image	
4	The positive integer just greater than $(1+0.0001)^{10000}$ is	A. 4 B. 5 C. 2 D. 3
5	Question Image	A. n! B. 0! C. 1 D. None of these
6	The value of the expression $\sin\theta + \cos\theta$ lies between	
7	One degree is denoted by	A. 1^0 B. 1' C. 1" D. 1 rad
8	In school there are 150 students Out of these 80 students enrolled for mathematics class 50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time Find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 20
9	Question Image	
10	Question Image	A. 360° B. 180° C. 90° D. None of these
11	The value of p for which both the roots of the equation $4x2- 20x + (25p2+ 15 p - 66) = 0$ are less than 2, lies in	
12	Question Image	A. Principle of equality of Fractions B. Rule for product of fraction C. Golden rule of fraction D. Rule of quotient of Fraction
13	Question Image	
14	Question Image	
15	sin2 π/6 + sin2 π/3 + tan2 π/4 =_____;	A. 1 B. 2 C. 3 D. 4
16	Question Image	
17	The set {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
18	Question Image	A. 2 B. -1 C. 8 D. not defined
19	Question Image	A. e^x+ c B. e^{-x}+ c C. x e^x+ c D. not possible

20	The product of the four fourth roots of unity is	A. 0
		B. 1
		C. -1
		D. None of these