Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
2	If $ax^2 + bx + x = 0$ is satisfied by every value of x, then	A. b = 0, c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
3	The line 3x - 4y = 0	A. Is a tangent to the circle $x^2 + y^2 = 25$ B. Is a normal to the circle $x^2 + y^2 = 25$ C. Does not meet the circle $x^2 + y^2 = 25$ D. Does not pass thro' the origin
4	Question Image	A. cos x B. - sin x C. - cos x D. tan x
5	Question Image	A. sec x tan x B. $\cos^2 x$ C. $\sin^2 x$ D. $\sec^2 x$
6	Question Image	D. none of these
7	Question Image	A. x =0, y =4 B. x = -1, y = 2 C. x = 2, y = 3 D. x = 3, y = 4
8	In one hour, the hour hand of a clock turns through	
9	Question Image	A. real number B. complex number C. rational number D. irrational number
10	Minor of an element a_{ij} is denoted by	A. M_{ij} B. A_{ij} C. |A| D. None of these
11	*O (0,0)* is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
12	The length of the tangent from (2, 1) to the circle $x^2 + y^2 + 4y + 3 = 0$ is	
13	cos(a-β) = _____;	A. sin a cosβ + cos a sinβ B. sin a cos β - cos a sinβ C. cos a cos β + sin a sinβ D. cos a cosβ - sin a sinβ
14	If S = {3,6,9,12.......}, then	A. S = Four multiples of 3 B. S = Set of even numbers C. S = Set of prime numbers D. S = All multiples of 3
15	Question Image	
16	If P is a proposition then its negative is denoted by	
17	Question Image	
18	The equation of vertical asymptotes of y = cos ecx is	A. x = 0 B. y = 0 C. x =∞ D. y =∞

19	Let A and B be two sets. If every element of A is also an element of B then	
20	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12