Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
2	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
3	The radius of the circle $2x^2 + 2y^2 - 4x + 12y+11=0$ is:	A. √4.5 B. √11 C. √29 D. √15
4	The equation of the normal to the circle $x^2+ y^2= 25$ at (4, 3) is	A. 3x - 4y =0 B. 3x - 4y =5 C. 4x + 3y = 5 D. 4x + 3y = 25
5	The solution of the equation $\cos^2\theta+ \sin\theta+ 1 = 0$ lies in the interval	
6	The sum of first 60 natural numbers is	A. 1830 B. 3660 C. 1640 D. 1770
7	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$ then $p^2+ q^2+ r^2+ 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
8	Question Image	
9	Roots of the equation $x^2+ 7x + 12 = 0$ are	A. {3, -4} B. {-3, 4} C. {3, 4} D. {-3, -4}
10	The number of tangents to the circle x2+ y2 -8x -6y +9 =0 which pass through the point (3,-2) is	A. 2 B. 1 C. 0 D. None of these
11	In R the number of identity elements w.r.t.'.' is	A. One B. Two C. Three D. Four
12	Question Image	A. I B. |A| C. |A| I D. None of these
13	tan(π-θ)=_____;	A. tanθ B. cotθ C. -tanθ D. -cotθ
14	Question Image	A. 5 / 12 B. 3 / 8 C. 5 / 8 D. 7 / 4
15	Question Image	
16	A Geometric Series is divergent only if	A. |r|>1 B. |r|≥1 C. |r|=1 D. None of these
17	A conditional "if p then q" is denoted by	
		A. 0

18	No term of a harmonic sequence can be	B. 1 C. 2 D. 3
19	Which of the following integrals can be evaluated	
20	The third term in the expansion of (1+2x) is	A. -2x2 B. -4x2 C. 2x2 D. 4x2