Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If n is any positive integer then $2^n > 2(n + 1)$ is true for all	
2	Question Image	
3	Question Image	
4	How many terms of the A.P 3,6,9,12,15.....must be taken to make the sum 108	A. 8 B. 6 C. 7 D. 36
5	$Sin^{-1}(-x)=$	A. Cos⁻¹1/x B. - Sin⁻¹X C. Cot⁻¹X D. None of these
6	Question Image	
7	$5x^3 + 3x -$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
8	The point _____ is in the solution of the inequality $2x - 3y > 5$	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
9	There are 25 tickets bearing number from 1 to 25. One ticket is drawn at random. The probability that the number on it is a multiple of 5 or 6 is	A. 7 / 25 B. 9 / 25 C. 11 / 25 D. None of these
10	If a, b, c are in AP., a, b, c are in G.P. then A, m^2b, c are in	A. A.P. B. G.P. C. H.P. D. None of these
11	Question Image	
12	Question Image	A. -10 B. 10/7 C. -10/7 D. -7/10
13	The domain of the function $x/x^2 -4$ is given by	A. R B. R + 2 C. [R - (<u>+</u>2) D. R-4
14	A fraction in which the degree of the numerator is greater than or equal to the degree of the denominator is called	A. A proper fraction B. An improper fraction C. An equation D. An identity
15	The period of the trigonometric function $y = \sin x \cos x$ is	A. 2π B. π C. 4π D. $\pi / 2$
16	Question Image	
17	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
18	If one end of the diameter of the circle $2x^2 + 2y^2 -8x - 4y = 2 = 0$ is (2 ,3), the other end is:	A. (2,1) B. (-2,1) C. (2,-1) D. (1,-1)
		A. cones

19	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	B. conics C. nappes D. apex
20	If f(√x)=sin x , then f'(x) =_____;	A. 2xcosx2 B. cosx2 C. cos√x D. None of these