Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	When a selection of object is made without paying regard to the order of selection, it is called	A. Sequence B. Series C. Combination D. Permutation
2	If a > 0 they parabola y2 =-4ax lies in	A. I and iv quadrant B. I quadrant C. II and III quadrant D. All are incorrect
3	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16 D. None of these
4	cos2a=_____;	A. cos2 a-sin2 a B. 2cos2 a-1 C. 1-2 sin2 a D. All of these
5	In a country 55% of the male population has houses in cities while 30% have houses both in cities and in villages find the percentage of the population that has houses only in villages	A. 45 B. 30 C. 25 D. 50
6	Period of 3 sin x is _____	
7	Question Image	A. 2 B. 4 C. 6 D. 8
8	If n is not natural number, then the expansion $(1 + x)^n$ is valid for	
9	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
10	Question Image	D. none of these
11	Question Image	
12	Question Image	
13	The radius of the circle $x^2 + y^2 - 6 x + 4 y +13 = 0$, is	A. 1 B. 2 C. 0 D. None of these
14	Question Image	A. 0 B. 1 C. 2 D. 1/2
15	The maximum value of the quadratic function f(x) = 2x2-4x+7,is	A. 3 B. 5 C. -3 D. -5
16	Question Image	A. Always negative B. Zero C. Always positive D. Infinity
17	If (0,4) and (0,2) are vertex and focus of the parabola respectively, the the equation of the parabola is:	A. x^2 = 4y -32 B. x^2 = 8y -32 C. y^3 = 16 x D. x2 + 8y =32
18	Question Image	A. -1 B. 1 C. 2

D. -2

19	The parametric equations of a circle are	
20	The vertex of the equation $y^2 = 4ax$ is:	A. (2, -2) B. (1,1) C. (0 , 0) D. (2 , 2)