Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Question Image	
4	Question Image	
5	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	A. cones B. conics C. nappes D. apex
6	The parabola $y^2 + 2y + x = 0$ lie in _____ quadrant.	A. First B. Second C. Third D. Fourth
7	The exact degree value of the function $\sin^{-1}(-\sqrt{3}/2)$ is	A. 70° B. 50° C. 90° D. 60°
8	Question Image	D. none of these
9	The expansion $(1 + x)^{-3}$ holds when	A. $\lvert x \rvert > 1$ B. $\lvert x \rvert < 1$ C. $x < 1$ D. $x > 1$
10	Question Image	
11	Question Image	
12	The domain the function : $f(x) = x^2$ is given by	A. R B. Set of all non-negative Real numbers C. R^{-1} D. None of these
13	Name the property used in a (b-c) = ab - ac	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
14	How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?	A. 15 B. 24 C. 60 D. 120
15	The number of non zero rows in echelon form of a matrix is called	A. Order of matrix B. Rank of matrix C. Row operation D. None of these
16	The straight lines represented by the equation $ax^2 + 2hxy + by^2 = 0$ intersects at	A. (1,1) B. (0,1) C. (1,0) D. (0,0)
17	The angle of elevation of the top of a tree from a point 17 meters from is foot is 42□The height of the tree is	A. 12m B. 21m C. 17m D. 15m
18	Question Image	
19	Question Image	A. cos x B. sec x tan x C. $\sec^2 x$

D. $-\csc^2 x$

20	Latus rectum = 4 x _____	A. focal distance of the vertex B. Chord C. Focus D. 1/2