Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. quadratic function B. constant function C. linear function D. exponential function
2	I f the focus is F (0,-a) and directrix is the line v=a, then equation of the parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $y^2 = -4ax$ D. $x^2 = 4ax$
3	Question Image	
4	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
5	Question Image	
6	The multiplicative inverse of x^(-1) is	A. x B. a-2 C. 0 D. 1
7	Let A be a square matrix. Then, 1/2 (A-A') is	A. Skew-symmetric B. Symmetric C. Null D. None of the above
8	Question Image	
9	Question Image	A. 1 / 2 B. 1 / 3 C. 1 / 4 D. None of these
10	Question Image	
11	Range if y = cos x is	A. $-1 \leq y \leq 1$ B. $-1 < y < 1$ C. $-\infty < x < +\infty$ D. None of these
12	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. Angle A is obtuse B. Angle A is acute C. Angle A is right-angle D. All of above
13	The approximate increase in the area of a circular disc if its diameter increased form 44cm to 44.4cm is	A. 0.4cm B. 8.8πcm C. 17.6 πcm D. 35.2πcm
14	if Z1 = 1+i, Z2= 2+3i, then |Z2 -Z1| =	A. $\sqrt{3}\,i$ B. $\sqrt{7}$ C. -2-i D. $\sqrt{5}$
15	Question Image	A. 0 B. 2 C. 4/3 D. 5/3
16	Tan $2\theta =$	
17	If Z_1 = 1+ i, Z_2 = 2+3i , then |Z_1 -Z_2| =?	A. $\sqrt{5}$ B. $\sqrt{7}$ C. -1-2i D. $\sqrt{3}$

D. √3

18	Question Image	
19	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers D. The set of whole numbers
20	In order of A is m x n and order of B is n x p then order of AB is	A. m x m B. n x n C. m x p D. p x m