GAT Subject Mathematics

Sr	Questions	Answers Choice
1	The 5th tally is marked obliquely after 4 tally marks so that:	A. Light the marks B. Equal the marks C. Remove the marks D. Counting is convenient
2	Which shape of the following objects are approximately parabolie axis?	A. Sound reflector B. Electric current C. Inverse reflect D. None of these
3	The tax which is imposed on the income of a person exceeding a certain limit of income is called.	A. Income tax B. Property tax C. Sales tax D. Wealth tax
4	The number formed by expended form 300000+10000+40+7:	A. 3147 B. 310047 C. 31047 D. 3010470
5	Suppose A,B are matrices scch that b exists and is zero matrix.Then:	A. A must be zero matrix B. B must be zero matrix C. Neither A nor B needs be zeo matrix D. None of these
6	If a set contains *n* elements, then the number of all its subsets will be :	A. 2ⁿ⁺¹ B. 2⁻ⁿ C. 2ⁿ D. n²
7	The equation of line with gradient 1 passing through the pint (h,x) is:	A. y =k + h - x B. y = -(x+k+h) C. y =x + k -h D. y =-x+2x+h
8	If a function is strictly monotone, then:	A. Injective B. Surjective C. Injective and Surjective D. None of these
9	If the bars are drawn vertically, then the graph is known as _____.	A. Vertical bar graph B. Line graph C. Pie graph D. Horizontal axis
10	If translation of axes,_____ is shifted to another point in the plane.	A. x-axis B. y-axis C. origin D. point
11	With sun at one focus, each planet describes:	A. Circle B. Parabola C. Elipse D. HYPERBOLA
12	In the fraction 2/5, the number 2 is called:	A. Denominator B. Numerator C. Rational D. Irrational
13	The determinant of a triangular matrix is the product of its entries on:(CSS.2003)	A. First row B. second row C. main diagonal D. None of these
14	The equation y"+4y"+y=sin x:y(0)=1,y'(0)=1,y"(1) =1,define:	A. A third order initial value B. An initial value problem C. A boundary value problem D. A mixed boundary value problem E. None of these
15	1 litre is equal to	A. 1000 cm³ B. 800 cm³

	_____	C. 500 cm³ D. 900 cm³
16	If there exists a non-zero minor of order r, then ranks of order A is:	A. equal to r B. less then r C. greater than or equal to r D. less than or equal to r
17	The Egyptians measured the width of river Nile by the help of a triangle formed by chains. The ratio of its side is:	A. 1 : 2 : 3 B. 2 : 3 : 4 C. 3 : 4 : 5 D. 4 : 5 : 6
18	The greatest 8 digits number is:	A. 99999999 B. 10000009 C. 99999990 D. 9999999
19	Cuboid has _____ surfaces ,8 vertices and 12 edges.	A. 5 B. 6 C. 9 D. 13
20	The number formed by expanded 600000+40000+3000+4:	A. 604034 B. 643004 C. 640034 D. 604300