GAT Subject Mathematics

Sr	Questions	Answers Choice
1	A potential function is a scalar function which satisfies:	A. Heat equation B. Laplace equation C. Wave equation D. None of these
2	The point inside the sphere from which all the points on the surface are at equal distance is known as the _____ of the sphere.	A. Centre B. Radius C. Cone D. Arc
3	The greatest number formed by digits 1,5,6,2,7,0,8 is:	A. 8765120 B. 8725610 C. 8762510 D. 8765210
4	If A={x/x is a positive integer and 4x<23}, then A =	A. {1,2,3,4,5,6,7} B. {4,5,6.....22} C. {1,2,3,.....23} D. {1,2,3,4,5}
5	The number of elements of the power set of {{a,b}, {b,c} , {d,e} is	A. 3 B. 6 C. 8 D. 9
6	The missing term from the proportion 2 :: 7 : : 49:	A. 14 B. 171.5 C. 0.28 D. 49
7	The multipiicative inverse of '1' is:	A. -1 B. 0 C. 1 D. 1/0
8	In general, for matrix multiplication, which property is not possible.	A. Associative B. Commutative C. Left distributive property D. Right distributive property
9	Which of the following pairs of angles is supplementary angles?	A. (35°,55°) B. (40°,150°) C. (40°,130°) D. (45°,135°)
10	The number of digits is the square root of 900 is	A. 1 B. 2 C. 3 D. 4
11	The Numeral form of "seventeen billion eight hundred fifty million seven thousand nine hundred and seventy nine ", is:	A. 17,85,007,979 B. 17,850,079,79 C. 17,850,007,979 D. None of these

12	If G={1,-1,i,-i},then (G,.)is a/an:	A. cyclic group B. Infinite group C. Semigroup D. Abelian group
13	The equation of line perpendicular to x +2y+3=0 and through the point (5,2) is:	A. 3x-y+8=0 B. 2x-3y+8=0 C. y=2x-8 D. 3x-2y+7=0
14	Every cyclic group is:	A. Non-Abelian B. Subgroup C. Abelian D. Group
15	Numbers upto 9 consist of:	A. 1 Digit only B. 2 Digit only C. 3 Digit only D. 9 Digit only
16	If A = {x,y}, then P (A) is	A. {(x},(y)} B. {(x,y,{x,y}} C. {{x},{y} ,{x,y}} D. {0,{x},{y},{x,y}
17	-2×(5 - 3) is equal to:	A. -2× 3 - 2× 5 B. -2× 5 - 2× 3 C. -2× 3 + 2× 5 D. -2× 5 + 2× 3
18	The fixed iterative method has _____ converges.	A. Linear B. Quadratic C. Cubic D. None of these
19	The simplest from of fraction from below, is 4/16, 3/39 , 3/9 , 3/4 :	A. 3/4 B. 3/9 C. 3/39 D. 4/16
20	The two vertices of a triangle are (-2,4) and (5,4). If its centroid is (5,6) then third vertex is :	A. (-10,12) B. (12,-10) C. (12,10) D. (10,12)