

## GAT Subject Mathematics MCQ's Test

Cr.	Quanting	Anguara Chaire
Sr	Questions	Answers Choice
1	If A = (3,8) and B = (5,6) then the distance between A and B is	A. 2√2 B. 2 C. 1 D. 6
2	If the $9^{\mbox{th}}$ tern of A.P is 8 and the $4^{\mbox{th}}$ term is 20. then the first term is	A. 1 B. 2 C2 D1
3	For which of the following ordered pairs (s,t) is s + t> and s- t < -3?	A. (3,2) B. (2,3) C. (1,8) D. (0,3)
4	If $k_1$ : $k_2$ = 1:1 then the point P dividing the line is	A. Mid point B. Extreme left point C. Extreme Right point D. Plies out side k <sub>1</sub> and k <sub>2</sub>
5	Domain of Y = csc x is	A. R - nπ, n ε I B. R C. R -nπ/2,nεI D. All negative Integers
6	Partial fraction of $1/x^3$ -1 will be of the form	A. Conjugate pair B. ordered pair C. reciprocal pair D. quadratic function
7	What is the conjugate of -7 -2i ?	A7 + 2i B. 7 + 2i C. 7-2i D. √53
8	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
9	If you looking a high point from the ground then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
10	The center of a circle of radius 10 is on the origin which of the following points lies with in the circle	A. (10,0) B. (8,8) C. (8,4) D. (0,10)
11	Which is a proper rational fraction	A. 3x - 7/x <sup>2</sup> +4 B. 2x <sup>2</sup> - 5/x <sup>2</sup> +4 C. 3x <sup>4</sup> /2x <sup>2</sup> -15 D. All are proper rational fraction
12	√23 is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
13	If in isosceles right angled triangle one side is a then hypotenuse is	A. a√2 B. a/2 C. a  D. Cannot be determined by given
14	Any point where f is neither increasing nor decreasing and f(x) =0 at that point is called a	A. Minimum B. Maximum C. Stationary point D. Constant
		A. p < r

15	If p and r are integers P = 0, and p $\neq$ -r, which of the following must be true?	B. p > r C. p + r < 0 D. p - r < -0
16	$Sin^{-1} x = ?$	A. π/2- Sin <sup>-1</sup> x B. π/2 -Cos <sup>-1</sup> x CSin <sup>-1</sup> x DCos <sup>-1</sup> x
17	If a rectangle has an area $81x^2$ and length of 27x, then what is its width?	A. 3x B. 9x C. 3x <sup>2</sup> D. 9x <sup>2</sup>
18	Period of Sin 2x =	A. π B. 4π C. 2nπ D. 2π
19	Two dice are rolled The number of possible out come in which at least one die shows 2 is?	A. 5 B. 12 C. 11 D. 7
20	If any two rows (or any two columns) of a square matrix are inter changed, the determinant of the resultant matrix is	A. True B. False C. Fallacious D. Some times true