

GAT Subject Mathematics MCQ's Test

Sr	Questions	Answers Choice
1	Sum of integers starting from to n is	A. n(n+1)/4 B. n(n+1)/6 C. n(n+1)/2 D. n(n-1)/2
2	Two natural numbers whose sum is 25 and difference is 5, are	A. 25, 20 B. 20, 10 C. 20, 5 D. 15, 10
3	The set (Q, .)	A. Infinite set B. Singleton set C. Two points set D. None
4	How many different arrangements of the letters in the word QABABA are Possible?	A. 720 B. 40 C. 60 D. 30
5	r + 3 > 5 then which is true	A. r + 2 > 4 B. r + 2 < 4 C. r + 2 + 4 D. None
6	The end points of the major axis of the ellipse are called its	A. foci B. Vertices C. Co-vertices D. eccentricity
7	If A and B are two events then $P(A \cup B) = ?$ (when A and B are disjoint)	A. P(A) - P(B) B. P(A) x P(B) C. P(A) + P(B) D. P(A) + P(B) -P(A∩B)
8	The set of the first elements of the ordered pairs forming a relation is called its	Ax B. does not exist C. 1/x D. 0
9	The Domain of $f(x) = \log x$ is	A. [0,∞] B. (0, ∞) C. [0,∞[D. [∞,∞]
10	If a and b are any two distinct negative real numbers and G-ab where A.G.H represent arithmetic geometric and harmonic means then	A. 1 B. ω ² C. ω D. 0
11	The value of x, and y, when $(x+iy)^2=5+4i$	A. X=2, y=-1 B. X=-2, y=1 C. X=2, y=-i D. X=2, y=2
12	Corola available in 5 models 8 colours and 3 sizes how many Corola must a local dealer have no hand in order to have one of each kind avialable?	A. 24 B. 120 C. 16 D. 39
13	If a cone is cut by a plane perpendicular to the axis of the cone then the section is a	A. Parabola B. Circle C. Hyperbola D. Ellipse
14	The parametric equation of a curve are $x = t^2$, $y = t^2$ then	A. dy/dx =3t/2 B. dy/dx =t ⁵ C. dy/dx =5t ⁴ D. None
15	Which of the following is the subset of all sets?	A. A ≠ C B. B = C C. A = B D. A ≠ B

16	A function F(x) is called even if	A. $F(x) = F(-x)$ B. $F(x) = F(-x)$ C. $F(x) = -F(x)$ D. $2F(x) = 0$
17	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
18	Sin ⁻¹ (-x) =	A. Cos ⁻¹ 1/x BSin ⁻¹ X C. 1/sin-1x D. Sin ⁻¹ 1/x
19	The degree of the polynomial $2x^4 + 3x^2 + 16x + 28 = x^4 + 2x^2$ is	A. [a _{ij -} b _{ji}] B. [a _{ij -} b _{ij}] C. [a _{ij -} b _{ij}] D. [a _{ij -} b _{ij}]
20	Which is an explicit function	A. y = x ² +2x -1 B. x ² +xy +y ² =2 C. xy ² -y +9/xy =1 D. All are