

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
2	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are othogonal, if:	A. a - b = 0 B. a + b = 0 C. a + b > 0 D. a - b < 0
3	If the equation of the parabola is y2 = 4ax, then opening of the parabola is to the right of the:	A. x-axis B. y = x C. y-axis D. x + y =0
4	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
5	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
6	Parametric equations x = a cos t, y = a sin t represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
7	If r is the radius of the circle and its center is at origin, then equation of circle is:	A. x ² + y ² = a ² B. x ² + y ² = r ² C. x ² - y ² = a ² D. x ² D. x ² = r ² - y ² = a ² D. x ² = r
8	Question Image	
9	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
10	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle B. Rhombus C. Parallelogram D. None of these
11	Question Image	A. tan x B. cot x C tan x D cot x
12	Question Image	
13	Question Image	B. 0
14	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
15	Question Image	A. 0 B. 1 C1 D. 2
16	The point of intersection of the altitudes of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center

17	If x and y are so mixed up and y cannot be expressed in terms of the independent variable x, then y is called a/an function of x.	A. Constant B. Explicit C. Implicit D. Inverse
18	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
19	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
20	The graph of $2x + y < 2$ is the open half plane which is the origin side of $2x + y = 2$:	A. At B. Not an C. On D. None of these