

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The inequality $y > b$ is the open half plane to the _____ of the boundary line $y = b$:	A. Above B. Left C. Below D. Right
2	The point (5, 8) lies the line $2x - 3y + 6 = 0$	A. Above B. Below C. On D. None
3	Which one is not an exponential function ?	
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
5	If s is the distance traveled by a body at time t , the velocity is given by the expression:	
6	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B. -1 C. 1
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. 0 D. 1
8	The symbol $y = f(x)$ i.e. y is equal to f of x , invented by Swiss mathematician-----:	A. Euler B. Cauchy C. Leibniz D. Newton
9	If $y = f(x)$, then the variable x is called ----- variable of a function f .	A. Dependent B. Independent C. Image of y D. None of these
10	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3 B. 4 C. 5 D. 6
12	If in the case of translation of axes, $O(-3, 2)$, $(x, y) = (-6, 9)$ then $(X, Y) =$	A. (-3, 9) B. (-3, 7) C. (-9, 11) D. (3, 7)
13	Equation of a line parallel to x -axis:	A. $x = 0$ B. $x = y$ C. $y = a$ D. $x = a$
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Unit Vector B. Null vector C. Position vector D. None of these
15	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
16	If the equation of the parabola $x^2 = 4ay$, then opening of the parabola is upward of the:	A. x -axis B. y -axis C. Major axis D. Minor axis
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\tan x$ B. $\cot x$ C. $-\tan x$ D. $-\cot x$

D. $-\cot x$

18

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

19

The feasible region is _____ if it can easily be enclosed within a circle.

- A. Bounded
- B. Exist
- C. Unbounded
- D. None of these

20

The opening of the parabola $x^2 = 16y$ is to _____ of the x-axis:

- A. Left
- B. Upward
- C. Right
- D. Downward