

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. $y = x$ C. y-axis D. None of these
2	Question Image	A. 0 B. 2 C. 1 D. 3
3	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c =$ _____:	
4	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. None of these
5	Inclination of X-axis or of any line parallel to X-axis is:	A. Zero D. Undefined
6	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
7	Question Image	A. cosec $x + c$ B. -cosec $x + c$ C. cot $x + c$ D. - cot $x + c$
8	Question Image	A. Scalar quantity D. Reciprocal vector
9	Question Image	A. Constant function B. Absolute linear function C. Linear function D. Quadratic function
10	Question Image	A. 0
11	Question Image	A. Undefined B. $3a^{2/2}$ C. $a^{2/2}$ D. 0
12	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
13	Question Image	
14	The inequality $x < a$ is the open half plane to the _____ of the boundary line $x = a$:	A. Above B. Left C. Below D. Right
15	Question Image	A. Circle B. Parabola C. Hyperbola D. Ellipse
16	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
17	The function $y = \ln x$ is a/an ----- function of x.	A. Constant B. Explicit C. Exponential D. Logarithmic
18	Question Image	

19 The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:

- A. $x = a$
- B. $x = -a$
- C. $y = a$
- D. $y = -a$

20 Let $f(x) = x^3 + \sin x$, then $f(x)$ is:

- A. Even function
- B. Odd function
- C. Power function
- D. None of these