

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $\sin x$ B. $\cos x$ C. $-\sin x$ D. $-\cos x$
2	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
3	The area A of a circle as a function of its circumference C is:	
4	$x = a$ is a vertical line perpendicular to _____.	A. x - axis B. x - axis may be C. y - axis D. None of these
5	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
6	In the translation of axes which formula is true:	A. $x = X + h$ B. $X = x + h$ C. $x + X = h$ D. None
7	A point of a solution region where two of its boundary lines intersects is called a _____ point of the solution region:	A. Maximum B. Corner C. Minimum D. None of these
8	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
9	Question Image	
10	Question Image	A. 0 B. -1 C. 1 D. 2
11	The feasible region is _____ if it can easily be enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
12	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
13	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x -axis B. major axis C. y -axis D. minor axis
14	Question Image	A. 1 (1 - 4) B. $2x - 3$ C. $x - 3$ D. $x^{\sup>3\</sup>} - 3x$
15	A line segment whose end points lie on the circle is called a _____ of the circle.	A. Radius B. Chord C. Diameter D. None of these
16	Question Image	A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech}^{\sup>2\</sup>} x$ C. $-\operatorname{sech} x \tanh x$ D. $\operatorname{sech}^{\sup>2\</sup>} x$
17	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

D. x with respect to x

18 For a square of side x units, the rate of change of area with respect to the side is given by:

- A. x
- B. x^2
- C. $2x$
- D. 2

19 Two arcs of two different circles are congruent if:

- A. The circles are congruent
- B. The corresponding central angles are congruent
- C. Both a and b
- D. None of the above

20 Two vectors are equal if they:

- A. Pass through the same point
- B. Are parallel to each other
- C. Are parallel to each other and have same direction
- D. Have equal magnitude and have same direction