

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Inclination of X-axis or of any line parallel to X-axis is:	A. Zero D. Undefined
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. 2 D. 1
3	The focus of the parabola $x^2 = 4ay$:	A. (0, a) B. (-a, 0) C. (0, -a) D. (a, 0)
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 2 C. 1 D. -1
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Implicit B. Explicit C. Exponential D. Logarithmic
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. sin x B. -cos x C. -sin x D. cos x
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. c B. 0 C. 1 D. -c
8	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm
9	If r is the radius of any circle and C its center, then any point P(x ₁ , y ₁) lies on the circle only if:	A. CP < r B. CP > r C. CP = r D. None of these
10	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
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
12	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective function C. Minimum function D. None of these
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Circle B. Parabola C. Hyperbola D. Ellipse
14	The vertical line y'oy is called:	A. x-axis B. y-axis C. abscissa D. Ordinate
15	Point of intersection of $x + y = 5$ & $x - y = 3$ is:	A. (5, 5) B. (4, 2) C. (4, 1) D. (1, 4)
16	$x = 3 \cos t$, $y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Ellipse

D. Hyperbola

17 The centroid of the triangle whose vertices are (3, -5), (-7, 4) and (10, -2) is:

- A. (-2, -2)
- B. (-2, 2)
- C. (2, -1)
- D. (0, 0)

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

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

19 The set of all points in the plane that are equally distant from a fixed point is called a / an:

- A. Circle
- B. Circular cone
- C. Ellipse
- D. Point circle

20 Question Image

- A. Integral
- B. Indefinite integral
- C. Differential
- D. Definite integral