

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	A line segment having both the end-points on a circle and not passing through the center is called a:	A. A chord B. A secant C. A diameter D. None of these
2	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
3	Two imaginary tangents can be drawn to a circle from any point $P(x_1, y_1)$ _____ the circle:	A. Inside B. On C. Outside D. None of these
4	$f(x) = \sin x + \cos x$ is ----- function:	A. Even B. Odd C. Composite D. Neither even nor odd function
5	The feasible region is _____ if it can easily be enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
6	$x = 2$ is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
7	Question Image <input style="width: 150px; height: 20px;" type="text"/>	A. c B. 0 C. 1 D. -c
8	Joint equation of $y + 2x = 0$ , $y - 3x = 0$ is:	A. $(y+2x)(y-3x) = 0$ B. $(y-2x)(y-3x) = 0$ C. $(y+2x)(y+3x) = 0$ D. $(y-2x)(y+3x) = 0$
9	The opening of the parabola $x^2 = 4ay$ is upward of the:	A. x -axis B. y = c C. y - axis D. x = y
10	If $(x, y)$ are the coordinates of a point, then the first component of the ordered pair is called:	A. Abscissa B. Ordinate C. Coordinate axes D. None of these
11	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
12	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
13	Question Image <input style="width: 150px; height: 20px;" type="text"/>	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x \tan x + c$ D. $-\sec x \tan x + c$
14	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
15	The line $y = a$ is below the x-axis, if:	A. $a > 0$ B. $a < 0$ C. $a = 0$
16	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = -a$

The axis of the parabola  $x^2 - 4y = 0$  is:

- C.  $y = 0$
- D.  $y = -a$

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Question Image

- A. 0
- B. 1
- C. -1
- D. 2

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Question Image

19

Question Image

- A. Free vector
- B. Unit vector
- C. Null vector
- D. None of these

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Question Image

- A. Position vector
- B. Null vector
- C. Unit vector
- D. None of these