

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{-x} \sin x + c$ B. $e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $e^{-x} \sin x + c$
2	The line $x = a$ is on the right of $y$ - axis if:	A. $a > 0$ B. $a < 0$ C. $a = 0$
3	Length of tangent from $(a, 0)$ to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. $c$ C. $2g + 2f - c$ D. None
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $90^\circ$ B. $30^\circ$ C. $60^\circ$ D. $0^\circ$
5	The coordinate axes divide the plane into----- equal parts:	A. 1 B. 2 C. 3 D. 4
6	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln  \sin x $ B. $-\ln  \sin x $ C. $\ln  \cos x $ D. $-\ln  \cos x $
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $x = a$ B. for all $x$ D. $x = 0$
9	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. $x$ -axis B. major axis C. $y$ -axis D. minor axis
10	The graph of linear equation of the form $ax + by = c$ is a _____ where $a, b$ and $c$ are constants and $a, b$ are not both zero.	A. Curve B. Circle C. Straight line D. Parabola
11	The vertex of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. One variable B. Three variable C. Two variable D. Four variable
13	For different values of $k$ , the equation $4x + 5y = k$ represents lines _____ to the line $4x + 5y = 0$ .	A. Perpendicular B. Parallel C. Equal D. None of these
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3 B. 4 C. 5 D. 6
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $x = a$ B. $x = 2$ C. $x = 0$ D. ...

D. None

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Question Image

- A.  $e^{ax}$
- B.  $f(x)$
- C.  $e^{ax}f(x)$
- D.  $e^{ax + f(x)}$

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The directrix of the parabola  $x^2 = 4ay$  is:

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

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Question Image

- A.  $\ln |\sec x + \tan x| + c$
- B.  $\ln |\operatorname{cosec} x - \cot x| + c$
- C.  $\ln |\sec x - \tan x| + c$
- D.  $\ln |\operatorname{cosec} x + \cot x| + c$

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Question Image

- A.  $\mathbb{R}$
- B.  $\mathbb{R} - \{2\}$
- C.  $\mathbb{R} - \{2, -2\}$
- D.  $\mathbb{R} - \{-2\}$