

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Two real and distinct 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
2	There are _____ ordered pairs that satisfy the inequality $ax + by > c$ .	A. Finitely many B. Two C. Infinitely many D. Four
3	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
4	Which one is an exponential function ?	
5	The instantaneous rate of change of $y$ with respect to $x$ is given by:	
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-\operatorname{cosec} x \cot x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec}^2 x$ D. $\operatorname{cosec} x \cot x$
7	The ratio between the measure of the radial segment and the diameter of a circle is:	A. 2 : 1 B. 4 : 3 C. 1 : 2
8	$y = 2x + 3$ is the;	A. Slope-intercept form B. Two points form C. Point slope form D. Intercepts form
9	X-coordinate of any point on Y-axis:	A. 0 B. $x$ C. $y$ D. 1
10	A line through a point say $P$ perpendicular to the tangent to the curve at $P$ is called:	A. Straight line B. Tangent line C. Normal line D. None of these
11	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
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Unit vector B. Null vector C. Free vector D. None of these
13	The symbol $  $ is used for:	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
14	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
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. 0 D. 1
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
17	The horizontal line $x' ox$ is called:	A. x-axis B. y-axis C. abscissa D. ordinate

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Question Image

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

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y-coordinate of any point on X-axis:

- A. 0
- B. x
- C. y
- D. 1

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The equation  $x^2 + y^2 + 2x + 3y = 10$  represents a:

- A. A pair of lines
- B. Circle
- C. Ellipse
- D. Hyperbola