

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B. -1 C. 1
2	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. $(y-2x)(y+3x) = 0$
3	If y is an image of x under the function f , we denote it by:	A. $x = f(y)$ B. $x = y$ C. $y = f(x)$ D. $f(x, y) = c$
4	Question Image	
5	The linear function $f(x) = ax + b$ is an identity function if:	A. $a = 0, b = 1$ B. $a = 1, b = 0$ C. $a = 1, b = 1$ D. $a = 0, b = 1$
6	The focus of the parabola $x^2 = -4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
7	Question Image	A. 0 B. 1 C. -1 D. 2
8	Question Image	
9	Question Image	A. $2 - 7$ B. $2 + 7$
10	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
11	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y , then y is a _____ of x .	A. Independent variable B. Not function C. Function D. None of these
12	Question Image	A. $5 \sin x$ B. $\cosh(5x)$ C. $5 \cosh(5x)$ D. $-5 \cosh(5x)$
13	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less than the radius C. Greater than the radius D. Equal to or greater than the
14	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
15	Question Image	
16	The distance between the points $(1, 2)$, $(2, 1)$.	A. 1 D. 2
17	The focus of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
18	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse

D. Ellipse

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Question Image

- A. $x = 0$
- B. $y = -a$
- C. $y = 0$
- D. $y = -a$

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(1, 0) is the solution of inequality :

- A. $7x + 2y < 8$
- B. $x - 3y < 0$
- C. $3x + 5y > 6$
- D. $-3x + 5y > 2$