

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The system of _____ involved in the problem concerned is called problem constraints:	A. Linear inequalities B. Equations C. Linear equalities D. None of these
2	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. $(-g, -f)$ B. $(-f, -g)$ C. $(0, 0)$ D. (g, f)
3	the focal chord perpendicular to the axis of the parabola is called _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
4	The centroid of a triangle is a point that divides each median in the ratio:	A. 2 : 1 B. 2 : 3 C. 1 : 3 D. 4 : 3
5	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
6	Which one is a constant function ?	A. $f(x) = x^2$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
7	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. -1 B. 1 C. 3 D. -3
8	X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:	A. Above B. Left C. Below D. Right
9	The inequality $x < a$ is the open half plane to the _____ of the boundary line $x = a$:	A. -2 B. 2 C. 3 D. 1
10	Distance of the point (-2, 3) from y-axis is:	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
11	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
12	Question Image	A. x-axis B. y-axis may be C. y-axis D. None of these
13	$y = b$ is a horizontal line perpendicular to _____:	A. x + y + 7 = 0 B. $x - y + 7 = 0$ C. $y - x + 7 = 0$ D. None of these
14	The equation to the straight line which passes through the point (2, 9) and makes an angle of 45° with x-axis is:	A. $x - y = 0$ B. $x + y = 0$ C. $y - x = 0$ D. None of these
15	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
16	Question Image	A. $\cot x$ B. $-\cot x$ C. $\operatorname{cosec} x \cot x$

D. -cosec x cot x

17 The directrix of the parabola $y^2 = 4ax$ is:

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

18 Question Image

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

19 Question Image

- A. a
- B. 2b
- C. b
- D. 2a

20 A solution of a linear inequality in x and y is an ordered pair of numbers, which _____ the inequality.

- A. Does not satisfy
- B. May be satisfied
- C. Satisfies
- D. None of these