


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. $f(x) = x^{>2}</sup>$ 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:	
8	X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:	A. -1 B. 1 C. 3 D. -3
9	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
10	Distance of the point $(-2, 3)$ from y-axis is:	A. -2 B. 2 C. 3 D. 1
11	Question Image	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
12	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
13	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis 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. $x + y + 7 = 0$ B. $x - y + 7 = 0$ C. $y - x + 7 = 0$ 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. $-\operatorname{cosec} x \cot x$

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

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

18 

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

19 

- 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 stisfied
- C. Satisfies
- D. None of these