

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
2	$x = c$ is a vertical line parallel to _____.	A. x-axis B. y-axis may be C. y-axis D. None of these
3	Question Image	
4	Question Image	B. 0
5	The fixed point of the conic is called:	A. Directrix B. Vertex C. Focus D. None of these
6	Question Image	A. Position vector B. Null vector C. Unit vector D. None of these
7	Question Image	A. 0 B. 1 C. -1 D. 2
8	Question Image	C. 0 D. 1
9	Question Image	A. cosech $x$ coth $x$ B. $-\text{cosech}^2 x$ C. cosech $x$ coth $x$ D. $\text{cosech}^2 x$
10	Perpendicular dropped from the center of a circle on a chord _____ the chord:	A. Normal B. Bisects C. Equal to D. None of these
11	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
12	For any point $(x, y)$ on x-axis:	A. $y = 1$ B. $y = 0$ C. $y = -1$ D. $y = 2$
13	The equation to the straight line which passes through the point $(2, 9)$ and makes an angle of $45^\circ$ with x-axis is:	A. $x + y + 7 = 0$ B. $x - y + 7 = 0$ C. $y - x + 7 = 0$ D. None of these
14	Length of tangent from $(0, 1)$ to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
15	There are _____ feasible solutions in the feasible region:	A. Finitely B. Two C. Infinitely many D. Three
16	Question Image	A. 3 B. 4 C. 5 D. 6
17	The directrix of the parabola $x^2 = 4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$

$y = a$   
D.  $y = -a$

18

Question Image

- A.  $\cos x + c$   
B.  $-\cos x + c$   
C.  $\sin x + c$   
D.  $-\sin x + c$

19

If  $y = x^2 + 1$  \_\_\_\_\_ x changes from 3 to 3.02 then  $dy =$  \_\_\_\_\_

- A. 0.1204  
B. .12  
C. .02  
D. 1.2

20

Question Image

- A. At  
B. Not on  
C. On  
D. None of these