

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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
2	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
3	The focus of the parabola $y^2=4ax$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
4	Question Image	A. 0
5	Question Image	A. Circle B. Parabola C. Hyperbola D. Ellipse
6	$ax + b < c$ is a inequality of:	A. One variable B. Two variable C. Three variable D. Four variable
7	If the focus lies on the y - axis with coordinates F(0, a) and directrix of the parabola is $y = -a$, then the equation of parabola is:	A. $x^2 = 4ay$ B. $-x^2 = 4ay$ C. $-y^2 = 4ax$ D. $y^2 = 4ax$
8	Which of the following is a vector quantity ?	A. Work B. Temperature C. Distance D. Displacement
9	The small change in the value of x, positive or negative is called the ----- of x.	A. Increment B. Differential C. Derivative D. none of these
10	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
11	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
12	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
13	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
14	If the lower limit is a constant and the upper limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
15	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
16	Question Image	A. 0 B. 1 C. -1 D. 2

17 The number e denotes the _____ of the conic:

- A. Directrix
- B. Vertex
- C. Focus
- D. Eccentricity

18 Question Image

- A. $\sec x \tan x$
- B. $-\sec^2 x$
- C. $-\sec x \tan x$
- D. $\sec^2 x$

19 Question Image

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

20 Question Image