

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $\ln \sec x + \tan x + c$ B. $\ln \cosec x - \cot x + c$ C. $\ln \sec x - \tan x + c$ D. $\ln \cosec x + \cot x + c$
2	Zero vector is perpendicular to:	A. Every vector B. Unit vector only C. Position vector only D. Not any vector
3	Question Image	A. x - axis B. z - axis C. y - axis D. None of these
4	If the focus lies on the x-axis with coordinates F(a, 0) and directrix of the parabola is = - a then the equation of parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $-x^2 = 4ay$ D. $-y^2 = 4ax$
5	The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ----- initial value conditions.	A. 1 B. 0 C. 2 D. n
6	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. 4a C. 2a D. None of these
7	In the translation of axes which formula is true:	A. $x = X + h$ B. $X = x + h$ C. $x + X = h$ D. None
8	Question Image	
9	In the case of rotation of axes which formula is true:	
10	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
11	Question Image	A. 4a B. 2a C. 4b D. 2b
12	If the degree of a polynomial function is -----, then it is called a linear function:	A. 0 B. 1 C. 2 D. 3
13	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree ----- with leading coefficient -----.	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
14	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
15	Question Image	
16	Which one is an identity function ?	A. $f(x) = g(x)$ B. $f(x) = x$ C. $f(x) = 1$
17	If the graph of f is entirely below the x -axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative

18 The directrix of the parabola $x^2 = -4ay$ is:

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

19 Question Image

20 A region, which is restricted to the _____ quadrant, is referred to as a feasible region for the set of given constraints.

A. First
B. Third
C. Second
D. Fourth
