

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	
2	The line $y = c$ is above the x -axis, if:	A. $c > 0$ B. $c < 0$ C. $c = 0$
3	General form of equation of line is:	A. $ax - by + c = 0$ B. $ax + by - c = 0$ C. $ax + by + c = 0$ D. $ax - by - c = 0$
4	There are _____ ordered pairs that satisfy the inequality $ax + by > c$.	A. Finitely many B. Two C. Infinitely many D. Four
5	The point of a parabola which is closest to the focus is the:	A. Directrix B. Vertex C. Focus D. Chord
6	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle B. Rhombus C. Parallelogram 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	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are orthogonal, if:	A. $a - b = 0$ B. $a + b = 0$ C. $a + b > 0$ D. $a - b < 0$
9	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7 cm C. 4 cm D. 5 cm
10	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
11	Measure of the central angle of a minor arc is _____ the measure of the angle subtended in the corresponding major arc.	A. Equal B. Double C. Not equal to D. Triple
12	Let $f(x) = x^2$, then range of f is the set of all:	A. Real numbers B. Non-negative real numbers C. Non-negative integers D. Complex numbers
13	A function, in which the variables are _____ numbers, then function is called a real valued function of real numbers.	A. Complex B. Rational C. Real D. None of these
14	Question Image	A. $\sin x$ B. $\cos x$ C. $-\sin x$ D. $-\cos x$
15	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
16	The vertex of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, a)$

D. (0, 0)

17

Question Image

C. 28
D. 29

18

A parallelogram is a rhombus if and only if its diagonals are:

A. Parallel
B. Perpendicular
C. Equal
D. None of these

19

For any point (x, y) on x-axis:

A. $y = 1$
B. $y = 0$
C. $y = -1$
D. $y = 2$

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Inverse hyperbolic functions are expressed in terms of natural:

A. Numbers
B. Exponential
C. Logarithms
D. Sines