

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. a B. 2b C. b D. 2a
2	If y is an image of x under the function f , we denote it by:	A. $x = f(y)$ B. $x = y$ C. $y = f(x)$ D. $f(x, y) = c$
3	Non-vertical lines divide the plane into _____ half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
4	Point $(5, 6)$ lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
5	Question Image	A. Open B. Closed C. Open as well as closed D. None of these
6	Question Image	A. $\cot x$ B. $-\cot x$ C. $\operatorname{cosec} x \cot x$ D. $-\operatorname{cosec} x \cot x$
7	Question Image	
8	The axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = -a$ C. $y = 0$ D. $y = -a$
9	Question Image	A. Undefined B. $3a^{²}$ C. $a^{²}$ D. 0
10	Question Image	A. Scalar quantity B. Reciprocal vector
11	Question Image	A. Even B. Odd C. One-one D. Zero
12	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
13	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
14	The centroid of the triangle whose vertices are $(3, -5)$, $(-7, 4)$ and $(10, -2)$ is:	A. $(-2, -2)$ B. $(-2, 2)$ C. $(2, -1)$ D. $(0, 0)$
15	The vertical line $y'oy$ is called:	A. x-axis B. y-axis C. abscissa D. Ordinate
16	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these

17 A quadrilateral having two parallels and two non-parallel sides is called:
A. Trapezium
B. Rectangle
C. Rhombus
D. None of these

18 Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:
A. Line
B. Circle
C. Parabola
D. Ellipse

19 The ratio in which the line segments joining (2, 3) and (4, 1) is divided by the line joining (1, 3) and (4, 3) is:
A. 2 : 1
B. 3 : 1
C. 1 : 2
D. 1 : 1

20 [Question Image](#)
A. 1
B. 2
C. 3
D. 0
