

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. 4a C. 2a D. None of these
2	If (1, x) is the mid point of the line segment joining the points (1, 2) & (1, 6) then x =	A. 1 B. 2 C. 3 D. 4
3	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
4	Question Image	
5	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
6	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
7	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
8	Which one is a constant function ?	A. $f(x) = x^2$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
9	Question Image	A. $\ln \sin x$ B. $-\ln \sin x $ C. $\ln \cos x $ D. $-\ln \cos x $
10	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. $y = x$ C. y-axis D. None of these
11	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
12	The graph of $2x + y < 2$ is the open half plane which is _____ the origin side of $2x + y = 2$:	A. At B. Not an C. On D. None of these
13	Point of intersection of $x + y = 5$ & $x - y = 3$ is:	A. (5, 5) B. (4, 2) C. (4, 1) D. (1, 4)
14	The graph of the parabola $y^2 = -4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and III
15	In the case of translation of axes which formula is true:	A. $x = X - h$ B. $x = X + h$ C. $x + X = h$ D. None
16	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative

D. Positive and negative

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Question Image

- A. Volume of the tetrahedron
- B. Volume of the parallelepiped
- C. Volume of the triangle
- D. None of these

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Question Image

- A. Unit vector
- B. Null vector
- C. Free vector
- D. None of these

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Let $f(x) = \cos x$, then $f(x)$ is an:

- A. Even function
- B. Odd function
- C. Power function
- D. None of these

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The non-negative inequalities are called:

- A. Parameters
- B. Constants
- C. Decision variables
- D. Vertices