

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The line $y = c$ is above the $x$ - axis, if:	A. $c > 0$ B. $c \leq 0$ C. $c = 0$
2	Perpendicular dropped from the center of a circle on a chord _____ the chord:	A. Normal B. Bisects C. Equal to D. None of these
3	$y = -2$ is a line:	A. Parallel to $x$ -axis B. Parallel to $y$ -axis C. Perpendicular to $x$ -axis D. None of these
4	The instantaneous rate of change of $y$ with respect to $x$ is given by:	
5	The point of intersection of the medians of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
6	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
7	The vertex of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. R B. $R - \{2\}$ C. $R - \{2, -2\}$ D. $R - \{-2\}$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Implicit B. Explicit C. Exponential D. Logarithmic
10	If $y = f(u)$ and $u = F(x)$ , then:	
11	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
12	If a variable $y$ depends on a variable $x$ in such a way that each value of $x$ determines exactly one value of $y$ , then $y$ is a _____ of $x$ .	A. Independent variable B. Not function C. Function D. None of these
13	If a straight line is perpendicular to $x$ -axis, then its slope is:	A. 0 B. 1 C. 2 D. Undefined
14	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
15	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
16	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less than the radius C. Greater than the radius D. Equal to or greater than the
17	In the case of rotation of axes which formula is true:	

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Question Image

- A. x - axis
- B. z - axis
- C. y - axis
- D. None of these

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$x = 4$  is a line:

- A. Parallel to x - axis
- B. Parallel to y - axis
- C. Perpendicular to y-axis
- D. None of these

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X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:

- A. -1
- B. 1
- C. 3
- D. -3