# ICS Part 2 Mathematics Full Book Test Online

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | The term dy (or df) = f '(x) dx is called the _____ of the dependent variable y. | A. Differentiation<br>B. Integration<br>C. Differential<br>D. None of these |
| 2 | Question Image | |
| 3 | Zero vector is perpendicular to: | A. Every vector<br>B. Unit vector only<br>C. Position vector only<br>D. Not any vector |
| 4 | A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a: | A. Secant<br>B. Diameter<br>C. Chord<br>D. Tangent |
| 5 | The axis of the parabola $x^2 = -4ay$ is: | A. x = a<br>B. x = 0<br>C. y = a<br>D. y = 0 |
| 6 | Question Image | A. Integral<br>B. Indefinite integral<br>C. Differential<br>D. Definite integral |
| 7 | Question Image | A. ln \|sin x\|<br>B. - ln \|sin x\|<br>C. ln \|cos x\|<br>D. -ln \|cos x\| |
| 8 | Question Image | A. -cosec x cotx<br>B. cosec<sup>2</sup> x<br>C. -cosec<sup>2</sup>x<br>D. cosec x cotx |
| 9 | Question Image | A. ln \|sec x + tan x \| + c<br>B. ln \|cosec x - cot x \| + c<br>C. ln \|sec x - tan x\| + c<br>D. ln \|cosec x + cot x \| + c |
| 10 | If s is the distance traveled by a body at time t, the velocity is given by the expression: | |
| 11 | The ratio between the measure of the radial segment and the diameter of a circle is: | A. 2 : 1<br>B. 4 : 3<br>C. 1 : 2 |
| 12 | Question Image | A. One variable<br>B. Three variable<br>C. Two variable<br>D. Four variable |
| 13 | If the radius of a circle is zero, then the circle is called a / an: | A. Circle<br>B. Circular cone<br>C. Ellipse<br>D. Point circle |
| 14 | A chord containing the center of the circle is called _____ of the circle: | A. Diameter<br>B. Chord<br>C. Radius<br>D. None of these |
| 15 | Question Image | A. sin x<br>B. cos x<br>C. sinh x<br>D. cosh x |
| 16 | Question Image | |
| 17 | Question Image | A. sin x<br>B. -cos x<br>C. -sin x<br>D. cos x |

| | | |
|---|---|---|
| 18 | Question Image | A. Parallel lines<br>B. Non-parallel lines<br>C. Perpendicular lines<br>D. Coplanar lines |
| 19 | ax + by < c is an inequality of: | A. One variable<br>B. Threevariable<br>C. Twovariable<br>D. Fourvariable |
| 20 | The point of intersection of the altitudes of a triangle is called: | A. Centroid<br>B. Ortho-center<br>C. Circums-center<br>D. In-center |