

## FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
2	Two arcs of two different circles are congruent if:	A. The circles are congruent B. The corresponding central angles are congruent C. Both a and b D. None of the above
3	A quadrilateral having two parallels and two non-parallel sides is called:	A. Trapezium B. Rectangle C. Rhombus D. None of these
4	A solution of a linear inequality in x and y is an ordered pair of numbers, which _____ the inequality.	A. Does not satisfy B. May be satisfied C. Satisfies D. None of these
5	$\text{Cosh}^2 x - \text{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
6	The point of intersection of the medians of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
7	Question Image <input type="text"/>	A. $\sinh x$ B. $\cosh x$ C. $-\sinh x$ D. $-\cosh x$
8	$ax + b > c$ is an inequality of:	A. One variable B. Three variable C. Two variable D. Four variable
9	The instantaneous rate of change of y with respect to x is given by:	
10	Question Image <input type="text"/>	A. $2\cosh x$ B. $2\sinh x$ C. $2\sinh(2x)$ D. $-2\sinh(2x)$
11	Question Image <input type="text"/>	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
12	Question Image <input type="text"/>	A. $x = a$ B. for all x D. $x = 0$
13	$x = 2$ is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
14	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
15	Question Image <input type="text"/>	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
16	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined

17	The small change in the value of $x$ , positive or negative is called the ----- of $x$ .	A. Increment B. Differential C. Derivative D. none of these
18	If $s$ is the distance traveled by a body at time $t$ , the velocity is given by the expression:	
19	If the graph of $f$ is entirely below the $x$ -axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
20	The law of parallelogram of addition was used by Aristotle to describe the combined action of :	A. One force B. Two forces C. Three forces D. Four forces