

## FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	If the equation of the parabola is $y^2 = 4ax$ , then opening of the parabola is to the right of the:	A. x-axis B. $y = x$ C. y-axis D. $x + y = 0$
2	If $r$ is the radius of any circle and $C$ its center, then any point $P(x_1, y_1)$ lies on the circle only if:	A. $ CP  \leq r$ B. $ CP  \geq r$ C. $ CP  = r$ D. None of these
3	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
4	the focal chord perpendicular to the axis of the parabola is called _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $2\cosh x$ B. $2\sinh x$ C. $2\sinh(2x)$ D. $-2\sinh(2x)$
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Implicit B. Explicit C. Exponential D. Logarithmic
7	The line $l$ is horizontal if and only if slope is equal to:	A. 0 B. 1 C. 2 D. undefined
8	$\cosh^2 x - \sinh^2 x =$	A. 1 B. -1 C. 2 D. -2
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3 D. 4
10	Distance of the point $(-3, 7)$ from x-axis is:	A. 3 B. -3 C. 7 D. 10
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	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sec x \tan x$ B. $\sec^2 x$ C. $-\sec x \tan x$ D. $-\sec^2 x$
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	If $x$ and $y$ are so mixed up and $y$ cannot be expressed in terms of the independent variable $x$ , then $y$ is called a/an ---- function of $x$ .	A. Constant B. Explicit C. Implicit D. Inverse
16	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

17 The point (2, 5) lies the lie  $3x - y + 1 = 0$

- A. Above
- B. Below
- C. On
- D. None

18 Question Image

- A.  $\operatorname{cosec} x + c$
- B.  $-\operatorname{cosec} x + c$
- C.  $\cot x + c$
- D.  $-\cot x + c$

19 Question Image

- A. Parallel lines
- B. Perpendicular lines
- C. Non-parallel lines
- D. None of these

20 Let  $f(x) = x^2$ , real valued function then domain of f is the set of all:

- A. Real numbers
- B. Integers
- C. Positive numbers
- D. Natural numbers