

FA Part 2 Mathematics Full Book Test Online

| Sr | Questions | Answers Choice |
|----|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1 | If the radius of a circle is zero, then the circle is called a / an: | A. Circle B. Circular cone C. Ellipse D. Point circle |
| 2 | Question Image | A. 60° B. 90° C. 30° D. 45° |
| 3 | The graph of the parabola $y^2 = -4ax$ is symmetric about: | A. x-axis B. $y = x$ C. y-axis D. None of these |
| 4 | Question Image | A. $\sinh x$ B. $\cosh x$ C. $-\sinh x$ D. $-\cosh x$ |
| 5 | Question Image | A. One variable B. Two variable C. Three variable D. Four variable |
| 6 | $ax + b < c$ is a inequality of: | A. Cauchy B. Newton C. Leibniz D. Lagrange |
| 7 | Notation $Df(x)$ for derivative was used by: | A. e^{ax} B. $f(x)$ C. $e^{ax}f(x)$ D. $e^{ax} + f(x)$ |
| 8 | Question Image | A. At B. Not on C. On D. None of these |
| 9 | Question Image | A. Normal B. Bisects C. Equal to D. None of these |
| 10 | Perpendicular dropped from the center of a circle on a chord _____ the chord: | A. sinh x B. $\cosh x$ C. $-\sinh x$ D. $-\cosh x$ |
| 11 | Question Image | A. Parabola B. Hyperbola C. Ellipse D. None of these |
| 12 | If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section a / an: | A. 0 B. 2 C. 3 D. 1 |
| 13 | Question Image | A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$ |
| 14 | The focus of the parabola $x^2 = -4ay$ is: | A. Set of all integers B. Set of natural numbers C. Set of real numbers D. Set of rational numbers |
| 15 | Let $f(x) = x^2 + 3$, then domain of f is: | A. x B. 2 |
| 16 | Question Image | A. x |

17 If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:
A. y
C. lower limit
D. upper limit

18 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

19 The term dy (or df) = $f'(x) dx$ is called the _____ of the dependent variable y .
A. Differentiation
B. Integration
C. Differential
D. None of these

20 $ax + by + c = 0$, will represent equation of straight line parallel y-axis if:
A. $a = 0$
B. $b = 0$
C. $c = 0$
D. $a = 0, c = 0$