

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If $s$ is the distance traveled by a body at time $t$ , the velocity is given by the expression:	
2	Question Image	A. Constant function B. Absolute linear function C. Linear function D. Quadratic function
3	$f(x)$ is odd function. If and only if:	A. $f(-x) = -f(x)$ B. $f(-x) = f(x)$ C. $f(x) = 3f(-x)$ D. $f(x) = -3f(-x)$
4	Question Image	A. $a$ B. $b$ C. $c$ D. $a + b$
5	$y$ - ordinate of the centroid of triangle with vertices A(-2, 3) B(-4, 1), C(3, 2) is:	A. 3 B. 1 C. 2 D. 0
6	If the inclination of the line $l$ lies between $]0^\circ, 90^\circ[$ , then the slope of $l$ is:	A. Positive B. Negative C. Undefined D. None of these
7	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
8	A line that touches the curve without cutting through it is called:	A. Straight line B. Tangent line C. Normal line D. Vertical line
9	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diameter C. Chord D. Tangent
10	Measure of the central angle of a minor arc is _____ the measure of the angle subtended in the corresponding major arc.	A. Equal B. Double C. Not equal to D. Triple
11	One of the angles of a triangle inscribed in a circle is of $40^\circ$ . If one of its' the diameter, the other angles have the measures:	A. $30^\circ, 110^\circ$ B. $40^\circ, 100^\circ$ C. $50^\circ, 90^\circ$ D. $20^\circ, 120^\circ$
12	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
13	If $y$ is an image of $x$ under the function $f$ , we denote it by:	A. $x = f(y)$ B. $x = y$ C. $y = f(x)$ D. $f(x, y) = c$
14	$-4 < y < 4$ is the solution of the following:	A. $y = 5$ B. $y = 3$ C. $y = -4$ D. $y = 4$
15	Length of tangent from (0,1) to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
16	$f(x) = \sin x + \cos x$ is ----- function:	A. Even B. Odd C. Composite

D. Neither even nor odd function

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Question Image

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

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If a straight line is perpendicular to y-axis, then its slope is:

- A. 1
- B. -1
- C. 0
- D. undefined

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The Maclaurin series expansion is valid only if it is:

- A. Convergent
- B. Divergent
- C. Increasing
- D. Decreasing

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Question Image