

## FA Part 2 Mathematics Full Book Test Online


Sr	Questions	Answers Choice
1	A scalar quantity is one that possesses only :	A. Magnitude B. Direction C. Both a and b D. None of these
2	$\tanh x =$	
3	If any two vectors of scalar triple product are equal, then its value is equal to:	A. 0 B. 1 C. -1 D. 2
4	The perpendicular distance of the line $3x + 4y + 10 = 0$ from the origin is:	A. 0 B. 1 C. 2 D. 3
5	The point of intersection of the perpendicular bisectors of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
6	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are othogonal, if:	A. $a - b = 0$ B. $a + b = 0$ C. $a + b \geq 0$ D. $a - b \leq 0$
7	$y = 2x + 3$ is the;	A. Slope-intercept form B. Two points form C. Point slope form D. Intercepts form
8	Sir Isaac Newton was a(an) ----- mathematician.	A. German B. French C. Swiss D. English
9	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. At B. Not on C. On D. None of these
10	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. None of these
11	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
12	Which of the following is a vector quantity ?	A. Work B. Temperature C. Distance D. Displacement
13	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. Integration B. Integrand C. Constant of integration D. None of these
14	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. $\sinh x$ B. $\cosh x$ C. $-\sinh x$ D. $-\cosh x$
15	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
16	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus

17 The radius of circle  $x^2 + y^2 + 2gx + 2fy + c = 0$  is:

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19 If the equation of the parabola is  $y^2 = -4ax$ , then opening of the parabola is to the \_\_\_\_\_ of the y-axis:

- A. Left
- B. Upward
- C. Right
- D. Downward

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