FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Zero vector is perpendicular to:	A. Every vector B. Unit vector only C. Position vector only D. Not any vector
2	Question Image	A. Scalar B. Free vector C. Unit vector D. Null vector
3	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
4	Question Image	A. Scalar quantity D. Reciprocal vector
5	Question Image	A. Free vector B. Unit vector C. Null vector D. None of these
6	Which of the following is a vector quantity ?	A. Work B. Temperature C. Distance D. Displacement
7	A scalar quantity is one that possesses only :	A. Magnitude B. Direction C. Both a and b D. None of these
8	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
9	Question Image	A. $\sec x \tan x$ B. $-\sec^2 x$ C. $-\sec x \tan x$ D. $\sec^2 x$
10	Question Image	A. $-\csc x \cot x$ B. $\csc^2 x$ C. $-\csc^2 x$ D. $\csc x \cot x$
11	Question Image	A. $\sec x \tan x$ B. $\sec^2 x$ C. $-\sec x \tan x$ D. $-\sec^2 x$
12	Question Image	A. Circle B. Parabola C. Hyperbola D. Ellipse
13	Question Image	A. Ellipse B. Parabola C. Hyperbola D. Circle
14	In the case of rotation of axes which formula is true:	
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	Question Image	A. a B. 2b C. b

		D. 2a
17	Question Image	A. x = 0 B. y = -a C. y = 0 D. y = -a
18	Question Image	A. 4a B. 2a C. 4b D. 2b
19	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
20	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity