

ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	<input type="text" value="Question Image"/>	A. direction ratios B. direction cosines C. direction angles D. none of these
3	<input type="text" value="Question Image"/>	
4	If a, b, c are sides of a triangle taken in order then $a \times b =$	A. $b \times c$ B. $b \times a$ C. $c \times a$ D. Both a & b
5	<input type="text" value="Question Image"/>	A. perpendicular vectors B. parallel vectors C. concurrent vectors D. none of these
6	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
7	<input type="text" value="Question Image"/>	A. 0 B. 1
8	<input type="text" value="Question Image"/>	D. none of these
9	<input type="text" value="Question Image"/>	
10	<input type="text" value="Question Image"/>	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 - m^2 + n^2 = 1$ C. $l^2 + m^2 + n^2 = 1$ D. $l^2 + m^2 - n^2 = 0$
11	<input type="text" value="Question Image"/>	A. 0 B. 1
12	<input type="text" value="Question Image"/>	D. none of these
13	The ortho center of triangle whose vertices are (0,0)(3,0)(0,4) is	A. (0,0) B. (1,1) C. (2,2) D. (3,3)
14	<input type="text" value="Question Image"/>	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
15	The number z so that the triangle with vertices A(1,-1,0), B(-2,2,1) and C(0,2,z) is a right triangle with right angle at vertex C	A. 1,2 B. -1,-2 C. 2,-1 D. -2,1
16	<input type="text" value="Question Image"/>	
17	If a, b, c are three non-coplanar vector then $[a + b, b + c, c + a] =$ _____	A. $[a, b, c]$ B. $2[a, b, c]$ C. $[abc] - 2$ D. $2[abc]^2$
18	The position vector of a point (x, y) in xy plane is	D. none of these
19	The zero vector is regarded to be parallel to	A. Every vector B. Is some cases C. Both a, b D. None

20

Which of the following is a scalar

- A. weight
- B. force
- C. speed
- D. momentum