

## ECAT Pre General Science Mathematics Chapter 24 Vectors Online Test

Sr	Questions	Answers Choice
1	If a,b,c are unit vectors then  a + b 2 + a - b 2	A. 4 B. 8ab C. 9cos D. 4(a,b)
2	Question Image	A. 0 B. 1
3	Question Image	
4	Question Image	D. none of these
5	Question Image	C. 0 D. 1
6	Question Image	
7	Question Image	D. none of these
8	Question Image	D. none of these
9	If the vector 2i + 4j - 7k and 2i + 6j + xk are perpendicular then x = ?	A. 0 B. 2 C. 4 D. 7
10	Question Image	A. direction ratios B. direction cosines
10	Question image	C. direction angles D. none of these
11	If 2 and 2 are x and y components of vector then its angle with x-axis is	A. 30 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> B. 45 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> C. 60 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> D. 90 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°</span> color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°
12	Question Image	A. A., B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
13	Question Image	C. 0 D. 1
14	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these
15	Which of the following is not a unit vector	A. [1, 1, 1] B. [0, 1, 0] C. [0, 0, 1] D. [1, 0, 0]
16	Question Image	D. none of these
17	The angle between the vectors 3i + j - k and 2i - j + k is	
18	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
19	Which of the following is a scalar	A. weight B. force C. speed

		D. momentum
20	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these