

ECAT Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Which of the following is a vector	A. length B. momentum C. volume D. speed
2	Question Image	D. none of these
3	The zero vector is	A. [0, 0, 0] B. [1, 1, 1] C. [0, 1, 0] D. [0, 0, 1]
4	The angle between the vectors $3i + j - k$ and $2i - j + k$ is	
5	Question Image	
6	If C is the mid point of AB and P is any point outside AB, then	
7	Question Image	A. perpendicular vectors B. parallel vectors C. concurrent vectors D. none of these
8	Question Image	
9	Question Image	C. 0 D. 1
10	Question Image	
11	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
12	The area of the rhombus whose vertices are A(0,0),B(2,1),C(3,3),D(1,2) is	A. 36 square units B. 3 square units C. 6 square units D. 18 square units
13	Question Image	A. 0 B. 1 C. -1 D. None
14	The position vector of the point P(a, b, c) is	
15	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these
16	If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$	A. 0 B. 2 C. 4 D. 7
17	Question Image	
18	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
19	Question Image	A. A B. 0 C. Unit vector D. None
20	Question Image	A. 0 B. 1