

ECAT (Pre-Eng) Mathematics MCQ's Test For Chapter 24 Vectors

Sr	Questions	Anewers Choice
Sr	Anepriorip	Answers Choice
1	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
2	Question Image	A. 0 B. 1
3	Question Image	
4	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
5	If $ \alpha + (\alpha+1)j + 2k = 3$ then value of α is	A. 1,2 B1,-2 C. 1,-2 D1,2
6	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
7	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
8	The unit vector along x-axis is	D. none of these
9	Question Image	
10	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
11	If θ be angle between u,v and u,v determine the sides of a triangle then the third side opposite to angle θ has length	A. u+v B. u + v C. u-v D. u - v
12	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these
13	3j.kxi	A. 0 B. 1 C. 3 D. 9
14	Question Image	
15	Question Image	C. 0
16	The physical quantity which can be specified by a number alongwith unit is called a	D. 1 A. scalar B. vector C. constant D. none of these
17	Question Image	
18	If a,b,c are unit vectors then a + b 2 + a - b 2	A. 4 B. 8ab C. 9cos D. 4(a,b)
19	Question Image	
20	Question Image	A. A,. B, C are coincident B. A, B, C are collinear