

ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
2	[i,j,k]	A. 0 B. 2 C. 1 D. -2
3	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)
4	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
5	Which of the following represents a vector	D. (x, y)
6	The unit vector along z-axis is	D. none of these
7	Question Image	D. none of these
8	If a,b,c are unit vectors then $ a + b ^2 + a - b ^2$	A. 4 B. 8ab C. 9cos D. 4(a,b)
9	Question Image	
10	Question Image	
11	If $ a \times b ^2 + (a \cdot b)^2 = \dots$	A. $ a ^2 + b ^2$ B. $ a ^2 - b ^2$ C. $ a ^2 b ^2$ D. None
12	The position vector of any point in space is	
13	Question Image	
14	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
15	$3j \cdot k \times i$	A. 0 B. 1 C. 3 D. 9
16	Question Image	
17	Unit vector in the positive direction of x-axis is	
18	Which of the following is a vector.	A. energy B. force C. work D. power
19	Question Image	A. perpendicular vectors B. parallel vectors C. concurrent vectors D. none of these
20	Question Image	A. A, B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these

