

ECAT (Pre-Eng) Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Question Image	
2	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
3	Question Image	
4	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
5	[i,j,k]	A. 0 B. 2 C. 1 D. -2
6	If $a + b + c = 0$ then which of the following is true	A. $a = b = c = 0$ B. $a, b = b, c = c, a$ C. $a \times b = b \times c = c \times a$ D. None
7	Question Image	D. none of these
8	If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$	A. 0 B. 2 C. 4 D. 7
9	Question Image	
10	Question Image	
11	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
12	Question Image	A. 0 B. 1
13	Which of the following is a vector.	A. work B. time C. density D. electric field
14	Question Image	D. none of these
15	Question Image	A. 0 B. 1
16	The unit vector along x-axis is	D. none of these
17	If $uv = Proj_v u$ then	A. Uandvare parallel B. vis a unit vector C. Uis a unit vector D. Both b and c
18	The angle between the vectors $3i + j - k$ and $2i - j + k$ is	
19	Question Image	D. none of these
20	Which of the following represents a vector	D. (x, y)