

ECAT (Pre-Eng) Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	[i,j,k]	A. 0 B. 2 C. 1 D. -2
2	Question Image	
3	Unit vector in the positive direction of x-axis is	
4	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
5	Which of the following is a vector.	A. work B. time C. density D. electric field
6	Question Image	C. 1 D. 0
7	Question Image	C. 0 D. 1
8	Question Image	
9	Question Image	D. none of these
10	$3j \cdot k \times i$	A. 0 B. 1 C. 3 D. 9
11	If a, b, c are three non-coplanar vector then $[a + b, b + c, c + a] = \underline{\hspace{2cm}}$	A. $[a, b, c]$ B. $2[a, b, c]$ C. $[abc] - 2$ D. $2[abc]^2$
12	Question Image	D. none of these
13	Question Image	
14	Which of the following is a scalar	A. weight B. force C. speed D. momentum
15	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
16	Question Image	D. none of these
17	Question Image	A. 0 B. 1 C. -1 D. None
18	If a force $F = 2i + j + 3k$ acts at point $(1, -2, 2)$ of a body then the moment of F about a pint lying on the line of action of the force is	A. 5 B. Equal to the moment of the force about origin C. 0 D. Cannot be found
19	Question Image	A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
20	Question Image	

