

ECAT (Pre-Eng) Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	C. 0 D. 1
2	<input type="text" value="Question Image"/>	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
3	<input type="text" value="Question Image"/>	
4	<input type="text" value="Question Image"/>	D. none of these
5	<input type="text" value="Question Image"/>	
6	<input type="text" value="Question Image"/>	A. direction ratios B. direction cosines C. direction angles D. none of these
7	<input type="text" value="Question Image"/>	A. A, B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
8	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
9	<input type="text" value="Question Image"/>	
10	<input type="text" value="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 position vector of any point in space is	
13	<input type="text" value="Question Image"/>	
14	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)
15	<input type="text" value="Question Image"/>	A. Free vector B. Null vector C. Unit vector D. None of these
16	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
17	The position vector of a point (x, y) in xy plane is	D. none of these
18	The zero vector is	A. [0, 0, 0] B. [1, 1, 1] C. [0, 1, 0] D. [0, 0, 1]
19	<input type="text" value="Question Image"/>	
20	<input type="text" value="Question Image"/>	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]