

ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	The position vector of the point P(a, b, c) is	
2	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
3	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
4	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
5	If a,b,c are unit vectors then $ a + b ^2 + a - b ^2$	A. 4 B. 8ab C. 9cos D. 4(a,b)
6	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	D. none of these
7	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	D. none of these
8	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	D. none of these
9	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
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	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
12	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
13	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	A. A B. 0 C. Unit vector D. None
14	[i,j,k]	A. 0 B. 2 C. 1 D. -2
15	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
16	If $a^2 = b^2$ then	A. $a = b$ B. $a+b= 1$ C. $ a+b =0$ D. None
17	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
18	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	
19	Which of the vectors have opposite direction?	
20	Question Image <input style="width: 90%; border: 1px solid #ccc;" type="text"/>	