

## ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Question Image	A. 25 B. 16 C. 5 D. 0
2	If $a, b, c$ are unit vectors then $ a + b ^2 +  a - b ^2$	A. 4 B. $8ab$ C. $9\cos\theta$ D. $4(a,b)$
3	Which of the following is a vector.	A. work B. time C. density D. electric field
4	Question Image	
5	Question Image	
6	Question Image	D. none of these
7	Question Image	
8	Question Image	D. none of these
9	Projection of vector $u$ along $v$ is	A. $ v  \cos\theta$ B. $ u  \cos\theta$ C. $ v  \sin\theta$ D. $ u  \sin\theta$
10	Question Image	D. none of these
11	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
12	If $\theta$ be angle between $u, v$ and $u, v$ determine the sides of a triangle then the third side opposite to angle $\theta$ has length	A. $ u+v $ B. $ u + v $ C. $ u-v $ D. $ u - v $
13	Question Image	D. none of these
14	Question Image	
15	Which of the following is a vector	A. length B. momentum C. volume D. speed
16	Question Image	D. none of these
17	Question Image	D. none of these
18	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
19	Question Image	D. none of these
20	The unit vector along z-axis is	D. none of these