

ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Which of the following is not a unit vector	A. [1, 1, 1] B. [0, 1, 0] C. [0, 0, 1] D. [1, 0, 0]
2	Question Image	
3	Unit vector in the positive direction of x-axis is	
4	Question Image	
5	Question Image	
6	The angle between the vectors 3i + j - k and 2i - j + k is	
7	Question Image	D. none of these
8	If Projvu = Projuv, then	A. Uand vare parallel B. u = v C. Uandvre perpendicular D. One ofuorv
9	Which of the following is a vector.	A. work B. time C. density D. electric field
10	Question Image	
11	Three points whose position vector a,b,c are collinear	A. axb +b x c+ c x a = 0 B. a,b +b,c +c,a =0 C. a, a xc =0 D. a+b+c =0
12	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
13	u,v,wand u x (v.w) are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
14	Question Image	D. none of these
15	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
16	Question Image	D. none of these
17	Question Image	A. 0 B. 90° C. 180° D. 360°
18	If a,b c are sides of a triangle taken in order then a x b =	A. b x c B. b x a C. cxa D. Both a & amp; b
		A. Free vector B. Null vector
19	Question Image	C. Unit vector D. None of these
20	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