ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	Question Image	D. none of these
3	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 xb=b xc =c xa D. None
4	Projection of vector u along v is	A. |v| cosθ B. |u| cosθ C. |v| sinθ D. |u| sinθ
5	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
6	The zero vector is	A. [0, 0, 0] B. [1, 1, 1] C. [0, 1, 0] D. [0, 0, 1]
7	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
8	Which of the following is a vector.	A. work B. time C. density D. electric field
9	Question Image	
10	3j . k x i	A. 0 B. 1 C. 3 D. 9
11	Question Image	A. a₁+ a₂ B. a²₁+ a²₂
12	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
13	Question Image	
14	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
15	Which of the following represents a vector	D. (x, y)
16	If Projvu = Projuv, then	A. Uand vare parallel B. |u|=|v| C. Uandvre perpendicular D. One ofuorv
17	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
18	If a,b,c are three non-coplanar vector then [a +b,b +c,c +a] = _____	A. [a.b.c] B. 2[a,b,c] C. [abc]-2 D. 2[abc]2
		A. Equal

19	u,v,wand u x (v.w) are	B. Parallel C. Additive immense of each other D. Meaningless
20	Question Image	D. none of these