ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	u,v,wand u x (v.w) are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
2	Question Image	A. A,. B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
3	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
4	Projection of vector u along v is	A. $\|v\| \cos\theta$ B. $\|u\| \cos\theta$ C. $\|v\| \sin\theta$ D. $\|u\| \sin\theta$
5	The area of the rhombus whose vertices are A(0,0),B(2,1),C(3,3),D(1,2) is	A. 36 square units B. 3 square units C. 6 square units D. 18 square units
6	Question Image	D. none of these
7	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
8	Question Image	A. 0 B. 1
9	Question Image	D. none of these
10	[i,j,k]	A. 0 B. 2 C. 1 D. -2
11	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
12	Question Image	
13	Question Image	D. none of these
14	Unit vector in the positive direction of x-axis is	
15	If uv= Projuv then	A. Uandvare parallel B. vis a unit vector C. Uis a unit vector D. Both b and c
16	If the vector 2i + 4j - 7k and 2i + 6j + xk are perpendicular then x = ?	A. 0 B. 2 C. 4 D. 7
17	If $\|a \times b\|2 + (a,b)2 =$ _____	A. $\|a\|2 + \|b\|2$ B. $\|a\|2- \|b\|2$ C. $\|a\|2\|b\|2$ D. None
18	Which of the following is a vector	A. length B. momentum C. volume D. speed

19	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
20	Question Image	D. none of these