ECAT Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	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
2	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
3	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
4	Question Image	
5	Question Image	D. none of these
6	Question Image	
7	Question Image	
8	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
9	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
10	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
11	Question Image	D. none of these
12	If 2 and 2 are x and y components of vector then its angle with x-axis is	A. 30° B. 45° C. 60° D. 90°
13	Question Image	
14	The number z so that the triangle with vertices A(1,-1,0),B(-2,2,1)and C(0,2,z) is a right triangle with right angle at vertex C	A. 1,2 B. -1,-2 C. 2,-1 D. -2,1
15	Question Image	A. A,. B, C are coincident B. A, B, C are collinear C. Both A and B D. None of these
16	Question Image	D. none of these
17	If |αi + (α+1)j +2k| =3 then value of α is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
18	The position vector of a point (x, y) in xy plane is	D. none of these

19	Question Image	
20	If Projvu = Projuv, then	A. Uand vare parallel B. |u|=|v| C. Uandvre perpendicular D. One ofuorv