ECAT Pre General Science Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Which of the following us a scalar	A. displacement B. velocity C. acceleration D. density
2	The ortho center of triangle whose vertices are (0,0)(3,0)(0,4) is	A. (0,0) B. (1,1) C. (2,2) D. (3,3)
3	Question Image	
4	If $\|\alpha i + (\alpha+1)j + 2k\| = 3$ then value of α is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
5	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
6	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
7	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
8	Question Image	A. A B. 0 C. Unit vector D. None
9	Question Image	D. none of these
10	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
11	Question Image	A. perpendicular vectors B. concurrent vectors C. parallel vectors D. none of these
12	Which of the following does not represent absolute value of a vector	A. magnitude B. length C. norm D. number
13	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
14	Question Image	D. none of these
15	Question Image	A. 0 B. 1
16	Question Image	
17	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
18	The angle between the vectors $3i + j - k$ and $2i - j + k$ is	
19	Question Image	C. 0 D. 1

20	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