

ECAT (Pre-Eng) Mathematics Chapter 24 Vectors

Sr	Questions	Answers Choice
1	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
2	Projection of vector u along v is	A. $ v \cos \theta$ B. $ u \cos \theta$ C. $ v \sin \theta$ D. $ u \sin \theta$
3	Question Image	
4	If $a^2 = b^2$ then	A. $a = b$ B. $a+b = 1$ C. $ a+b = 0$ D. None
5	Question Image	D. none of these
6	If $ ai + (a+1)j + 2k = 3$ then value of a is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
7	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
8	Question Image	
9	Question Image	A. 0 B. 1
10	Question Image	D. none of these
11	Question Image	
12	Question Image	D. none of these
13	If a, b, c are sides of a triangle taken in order then $a \times b =$	A. $b \times c$ B. $b \times a$ C. $c \times a$ D. Both $a \times b$ and $b \times a$
14	Question Image	D. none of these
15	Question Image	A. 0 B. 1 C. -1 D. None
16	Question Image	A. $ l ^2 + m ^2 + n ^2 = 0$ B. $ l ^2 + m ^2 + n ^2 = 1$ C. $ l ^2 + m ^2 + n ^2 = 1$ D. $ l ^2 + m ^2 + n ^2 = 0$
17	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
18	Question Image	
19	A vector with magnitude one is called	A. constant vector B. unit vector C. zero vector D. null vector
20	Question Image	

