

ECAT (Pre-Eng) Mathematics MCQ's Test For Chapter 24 Vectors

Sr	Questions	Answers Choice
1	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
2	Question Image	
3	Question Image	
4	Which of the following is a vector.	A. work B. time C. density D. electric field
5	Question Image	
6	Question Image	D. none of these
7	Question Image	A. 0 B. 1 C1 D. None
8	Question Image	D. none of these
9	Question Image	
10	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
11	Which of the vectors have opposite direction?	
12	For two vector a and b, a+b =	A. a b B. b+a C. b-a D. None
13	Question Image	D. none of these
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 B1,-2 C. 2,-1 D2,1
15	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
16	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
17	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 °
18	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these

9	Question Image	D. none of these
20	If Projvu = Projuv, then	A. Uand vare parallel B. u = v C. Uandvre perpendicular D. One ofuorv