

Mathematics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Which of the following is not a unit vector	A. $[1, 1, 1]$ B. $[0, 1, 0]$ C. $[0, 0, 1]$ D. $[1, 0, 0]$
4	The zero vector is	A. $[0, 0, 0]$ B. $[1, 1, 1]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
5	Question Image	A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
6	Question Image	A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
7	Question Image	A. $[0, 0, 0]$ B. $[1, 0, 0]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
8	The unit vector along z-axis is	D. none of these
9	The unit vector along y-axis is	D. none of these
10	The unit vector along x-axis is	D. none of these
11	Which of the following represents a vector	D. (x, y)
12	Which of the following does not represent absolute value of a vector	A. magnitude B. length C. norm D. number
13	Question Image	
14	Question Image	
15	Which of the following is a vector.	A. distance B. temperature C. energy D. acceleration
16	Which of the following is a vector.	A. energy B. force C. work D. power
17	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
18	Which of the following is a vector.	A. work B. time C. density D. electric field
19	Which of the following is a vector	A. length B. momentum C. volume D. speed
20	Which of the following is a scalar.	A. electric field B. magnetic field C. weight

		D. mass
21	Which of the following is a scalar	A. displacement B. velocity C. acceleration D. density
22	Which of the following is a scalar	A. weight B. force C. speed D. momentum
23	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these
24	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
25	Question Image	
26	Question Image	
27	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
28	Question Image	
29	The tangents drawn from the point P to a circle are real and coincident if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
30	The tangents drawn from the point P to a circle are imaginary if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these