

ECAT Pre Engineering Entry Test

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

20	Which of the following is a scalar	A. displacement B. velocity C. acceleration D. density
21	Which of the following is a scalar	A. weight B. force C. speed D. momentum
22	The physical quantity which possesses both magnitude and direction is called a	A. scalar B. vector C. constant D. none of these
23	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
24	Question Image	
25	Question Image	
26	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
27	Question Image	
28	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
29	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
30	Question Image	