

## Ics Part 2 Mathematics Chapter 7 Test Online

Sr	Questions	Answers Choice
1	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
2	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
3	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these
4	The cross product or vector product of two vectors is defined:	A. Only in plane B. Only in space C. Both a and b D. None of these
5	Question Image	
6	Question Image	A. 1 B. 2 C. 3 D. 0
7	If 2 and 2 are x and y-components of a vector, then its angle with x-axis is:	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $90^\circ$
8	Question Image	A. Position vector of O B. Position vector of P C. Unit vector D. Null vector
9	Question Image	A. Free vector B. Unit vector C. Null vector D. None of these
10	Question Image	A. Position vector B. Null vector C. Unit vector D. None of these
11	Question Image	B. 0
12	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
13	Question Image	A. 0 B. 2 C. 3 D. 1
14	Question Image	A. Unit vector B. Null vector C. Position vector D. None of these
15	Question Image	C. 28 D. 29
16	Zero vector is perpendicular to:	A. Every vector B. Unit vector only C. Position vector only D. Not any vector
17	Which are the following triples can be direction angles of a single vector:	A. $45^\circ, 45^\circ, 60^\circ$ B. $30^\circ, 45^\circ, 60^\circ$ C. $45^\circ, 60^\circ, 60^\circ$

0. 10°, 10°, 10°  
D. 30°, 30°, 30°

18	Question Image	A. 1 B. 0
19	Question Image	A. a B. b C. c D. a + b
20	$i \cdot (j \cdot k) =$	A. Meaningless B. -1 C. 1 D. 2
21	Question Image	A. Scalar quantity D. Reciprocal vector
22	Question Image	A. 2 - 7 B. 2 + 7
23	Question Image	A. 0 B. 1 C. -1 D. 2
24	If any two vectors of scalar triple product are equal, then its value is equal to:	A. 0 B. 1 C. -1 D. 2
25	Question Image	A. Volume of the tetrahedron B. Volume of the parallelepiped C. Volume of the triangle D. None of these
26	Question Image	A. 0 B. 2 C. 3 D. 1
27	A unit vector is defined as a vector whose magnitude is:	A. 0 B. 2 C. 1 D. 4
28	Question Image	A. 0
29	Question Image	A. 3 B. 4 C. 5 D. 6
30	Question Image	A. 0 B. 1 C. -1 D. 2
31	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
32	Question Image	A. x - axis B. z - axis C. y - axis D. None of these
33	Question Image	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
34	The law of parallelogram of addition was used by Aristotle to describe the combined action of :	A. One force B. Two forces C. Three forces D. Four forces
35	Question Image	C. 0 D. 1
36	Question Image	A. 0 B. 1 C. -1 D. 2

37	Question Image	A. Scalar B. Free vector C. Unit vector D. Null vector
38	A scalar quantity is one that possesses only :	A. Magnitude B. Direction C. Both a and b D. None of these
39	Question Image	A. $60^\circ$ B. $90^\circ$ C. $30^\circ$ D. $45^\circ$
40	Question Image	A. $90^\circ$ B. $30^\circ$ C. $60^\circ$ D. $0^\circ$
41	Question Image	A. 0 B. -1 C. 1 D. 2
42	Which of the following is a vector quantity ?	A. Work B. Temperature C. Distance D. Displacement