Physics ICS Part 1 Chapter 2 Online Test

Sr	Questions	Answers Choice
1	The dot product of two vectors A and B will be zero, if angle between A and B is	A. Zero B. 30° C. 90° D. 180°
2	When a fore of 100 N is acting on an object along x-axis then its vertical component will be.	A. 50 N B. 0 N C. 25 N D. 10 N
3	A direction of torque is	A. Along the position vector r B. Perpendicular to both r and f C. Along the direction of force F D. Opposite to the direction of r
4	If r = 5 m and f = 4 N are along same direction, them torque is	A. 20 Nm B. 5 Nm C. 10 Nm D. Zero
5	The force and torque are analogous to	A. Velocity B. Mass and weight C. Moment of Inertia D. Each other
6	Dot product of vector with itself is.	A. Zero B. 2 A C. A^2 D. A
7	Dot product of two non zero vectors is zero it angle between them is.	A. 30° B. 60° C. 45° D. 90°
8	Force 12 N and 5 N are add, the resultant con not be	A. 13 N B. 6 N C. 7 N D. 17 N
9	The resultant of two forces 3 N and 4 N acting at right angle to each other is	A. 7 N B. 5 N C. 4 N D. 1 N
10	Maximum number of components of a vector may be	A. Infinite B. One C. two D. three
11	Two vector can be added by simple arithmetical method when they are at an angle of.	A. 120° B. 90° C. 0° D. 45°
12	If a vector of magnitude 10 N along y-axis then its component along x-axis is	A. 0 N B. 5 N C. 8.66 N D. 10 N
13	The resultant of two vectors having magnitude 10 N and 8 N Can not be	A. 2 N B. 9 N C. 18 N D. 20 N
14	The resultant of two forces 3N and 4 N acting at right angle to each other is.	A. 5 N B. 6 N C. 1 N D. 7 N
15	Vector has both of its components are negative lies in	A. 1st quadrant B. 2nd quadrant C. 3rd quadrant D. 4th quadrant

16	A force of 10N makes an angle 30o with y axis. Then magnitude of x -component is.	A. 5 N B. 8.66 N C. 10 N D. Zero
17	The magnitude of A will be	A. Zero B. A^2 C. 1 D. A