

## 1st Year Fsc Physics Online Test

Sr	Questions	Answers Choice
1	If $r = 5 \text{ m}$ and $f = 4 \text{ N}$ are along same direction, then torque is	A. 20 Nm B. 5 Nm C. 10 Nm D. Zero
2	The force and torque are analogous to	A. Velocity B. Mass and weight C. Moment of Inertia D. Each other
3	Dot product of vector with itself is.	A. Zero B. 2 A C. $A^2$ D. A
4	Dot product of two non zero vectors is zero if angle between them is.	A. $30^\circ$ B. $60^\circ$ C. $45^\circ$ D. $90^\circ$
5	Force 12 N and 5 N are add, the resultant can not be	A. 13 N B. 6 N C. 7 N D. 17 N
6	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
7	Maximum number of components of a vector may be	A. Infinite B. One C. two D. three
8	Two vector can be added by simple arithmetical method when they are at an angle of.	A. $120^\circ$ B. $90^\circ$ C. $0^\circ$ D. $45^\circ$
9	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
10	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
11	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
12	Vector has both of its components are negative lies in	A. 1st quadrant B. 2nd quadrant C. 3rd quadrant D. 4th quadrant
13	A force of 10N makes an angle $30^\circ$ with y axis. Then magnitude of x -component is.	A. 5 N B. 8.66 N C. 10 N D. Zero
14	The magnitude of A will be	A. Zero B. $A^2$ C. 1 D. A
15	Minimum number of unequal forces whose vector sum can be zero are.	A. 5 B. 4 C. 3 D. 2

16	A force of 100 N makes an angle of $60^\circ$ with Y- Axis, its horizontal component is.	A. 50 N B. 60 N C. 70.7 N D. 86.6 N
17	A force of 100 N makes on angle of $60^\circ$ with y axis, its horizontal component is.	A. 50 N B. 60 N C. 70.7 N D. 86.6 N