

## Physics ICS Part 1 Chapter 2 Online Test

Sr	Questions	Answers Choice
1	A body thrown upward making certain angle with the horizontal and moving freely under the action of gravity is called.	A. Rocket B. Satellite C. Projectile D. Space ship
2	The SI unit of momentum is.	A. Kg ms B. Kg ms <sup>-2</sup> C. kg m <sup>2</sup> s D. kg 2 m <sup>-1</sup>
3	The trajectory of projectile is.	A. Straight line B. Parabola C. Hyperbola D. Circle
4	During the projectile motion the horizontal component of velocity	A. Changes with time B. Becomes zero C. Does not change D. Increase with time
5	The projectile gains its maximum height at an angle of projection	A. 0° B. 45° C. 60° D. 90°
6	For what angle of projection projectile has maximum horizontal range	A. 45° B. 90° C. 0° D. 30°
7	The rate of change of momentum is	A. Force B. Impulse C. Acceleration D. Power
8	In projectile motion horizontal range depends upon.	A. Angle of projection B. Initial velocity C. Both initial velocity and angle of projection D. Final Velocity
9	The angle at which dot product becomes equal to cross product.	A. 45° B. 65° C. 75° D. 35°
10	The scalar product of two vectors is maximum if they are.	A. Perpendicular B. Parallel C. At 30° D. At 45°
11	If $A \cdot B = 0$ when vector A and B are parallel or anti parallel, then either A or B is a	A. Equal B. Null Vector C. Perpendicular D. Not Zero
12	The scalar product of two vectors A and B is zero when	A. They are perpendicular to each other B. They are equal vectors C. They are in same direction D. They are in opposite direction
13	Which of the following is a scalar quantity.	A. Torque B. Force C. Energy D. Acceleration
14	Maximum number of rectangular components of a vector in 2-dimension may be	A. One B. Two C. Three D. Infinite

15	The velocity of the projectile is maximum.	<p>A. At half of height</p> <p>B. At highest point</p> <p>C. Just before striking the ground and at the point of projection</p> <p>D. At one fourth of maximum height</p>
16	The resultant of two forces 3 N and 4 N acting parallel to each other is.	<p>A. 4 N</p> <p>B. 7 N</p> <p>C. 1 N</p> <p>D. 6 N</p>
17	If $\mathbf{A} \times \mathbf{B}$ points along positive z-axis, then vector A and B must lie in.	<p>A. y Z -plane</p> <p>B. X y -plane</p> <p>C. X Z -plane</p> <p>D. x 0 - Plane</p>
18	Motion of projectile is.	<p>A. One dimensional</p> <p>B. Two dimensional</p> <p>C. Three dimensional</p> <p>D. None of the above</p>
19	The range of projectile is same for two angles which are mutually.	<p>A. Perpendicular</p> <p>B. Complementary</p> <p>C. Supplementary</p> <p>D. <math>270^\circ</math></p>
20	Name the quantity which is a vector	<p>A. Power</p> <p>B. Density</p> <p>C. Impulse</p> <p>D. Charge</p>