

Physics Fsc Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	The ratio of angular speed of minute's hand and hour's hand of watch is.	A. $12:1$ B. $1:6$ C. $6:1$ D. $1:12$
2	A man inside the artificial satellite feels weightlessness because the force of attraction due to the earth is.	A. Zero at pole B. Balanced by the force of attraction due to the moon C. Equal to the centripetal force D. Non effective due to some particular design of the satellite
3	In one revolution the angular displacement covered is.	A. 60° B. 90° C. 360° D. 180°
4	One radian is equal to.	A. 57.3° B. 56.3° C. 360° D. 58.3°
5	The time rate of change of angular displacement is called.	A. Linear velocity B. Linear Acceleration C. Angular Acceleration D. Angular velocity
6	A wheel of radius 2 m turns through an angle of 57.3° it lay out a tangential distance.	A. 2 m B. 4 m C. 57.3 m D. 114.6 m
7	The moment of inertia of body depends upon	A. Mass of the body and its distribution about axis of rotation B. Volume of the body C. Kinetic energy of the body D. Angular momentum of the body
8	When a ball is rotation in a circular path at the end of string is released. It will move.	A. To the centre B. A way from the centre C. Along the tangent D. Opposite to the motion
9	The dimension of angular velocity is.	A. $[LT^{-1}]$ B. $[LT^{-2}]$ C. $[T^{-1}]$ D. $[L^{-1}T]$
10	Law of conservation of angular momentum is important in.	A. Diving B. Gymnastics C. Ice Skating D. All of these
11	When a body is whirled in a horizontal circle by means of a string. The centripetal force is supplied by	A. Mass of a body B. Velocity of a body C. Tension in the string D. Air friction
12	The minimum velocity necessary to put a satellite into the orbit is called.	A. Terminal velocity B. Critical velocity C. Artificial velocity D. Angular Velocity
13	Artificial gravity is provided to the satellite by	A. Velocity B. Weight C. Acceleration D. Rotating around a vertical axis
14	A bottle of soda water is grasped from the neck and swung briskly in vertical circle.	A. Near the bottom B. In the middle of bottle

14	Near which portion of the bottle do the bubbles collect.	C. Bubbles remain distributed throughout D. Near the neck of the bottle
15	In the absence of external force, the change in momentum is.	A. Zero B. Constant C. Decreasing D. Increasing
16	The rate of change of angular velocity is.	A. Angular velocity B. Angular acceleration C. Angular displacement D. Angular speed
17	SI Unit of angular displacement	A. Meter B. Radian C. Kilometer D. Centimeter
18	The force needed to bend the normally straight path of the particle into a circle is.	A. Gravitational force B. Frictional force C. Centrifugal force D. Centripetal force
19	A 1000 kg truck is turning round a corner of radius 100 m with speed 72 km/h, centripetal force isN.	A. 2 B. 40 C. 400 D. 4000
20	The mud flies off the tyre of a moving bicycle which is along.	A. Tangent B. Normal C. To the centre D. Perpendicular