Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Direction of angualr aceleration is always along.	A. x -axis B. y -axis C. z-axis D. The axis of rotation
2	Teh moment of inertial 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
3	A bottle of soda wate is grasped fromt he neck and swung briskly in vertical circle. Near whcih portionof the bottle do the bubble collect.	A. Near the bottom B. In the middle of bottle C. Bubble sremain distributed througout D. Near the neck of the bottle
4	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
5	The time rate of changer of angular displacement is called.	A. Linear velocity B. Linear Acceleration C. Angular Acceleration D. Angualr velocity
6	The direction of motion of a particle moving in a circle is along the	A. Normal B. Tangent C. Away from centre D. Towards the centre
7	The rate of change of angular velocity is.	A. Angular velocity B. Angualr aceleration C. Angular displacement D. Angular speed
8	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
9	Artificial gravity is provided to the satellite by	A. Velocity B. Wetight C. Acceleration D. Rotating aroudn a verticla axis
10	In the absence of external force, the chagne in momentum is.	A. Zero B. Constatn C. Decreasing D. Increasing
11	A 1000 kg truck is turinging round a corner of radius 100 m with speed 72 km/h, centipetal force is ……N.	A. 2 B. 40 C. 400 D. 4000
12	The work doen by the centripetal force is.	A. Zero B. Minimum C. Maximum D. Negative work
13	A wheel of radius 2 m turns though an angle of 57.3^{o} It lay out a tangential distance.	A. 2m B. 4 m C. 57.3 m D. 114 .6 m
14	If arc distanc is equal two times of radius of circle, then angle traced will be.	A. 30° B. 40° C. Irad D. 2 rad

15	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
16	An object in uniform circular motion make 10 revolution sin 2 secons .Which of the following statement is true.	A. Its period is 2.0 s B. Its period is 20 s C. Its frequency is 5 Hz D. Its frequency is 0.2 Hz
17	A body travellling in a circle at constatn speed.	A. Has constaltn velocity B. Has an inward radial acceleration C. I not accelerated D. Has an outward radical acceleration
18	A man inside th artificial satllite feels weightlessness because the force of attrction 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 prticular design of the satellite
19	The dimension of angular velocity is.	A. [LT-1] B. [LT-2] C. [T-1] D. [L-1T]
20	Law of consrvation of angular momentum is importnat in.	A. Diving B. Gymnastics C. Ice Skating D. All of these