Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Ratational analogue of force is.	A. Torque B. Velocity C. Mass and veight D. Momentum
2	A wheel of radius 50 cm having an angular speed 5 rad/sec will hae linear speed.	A. 1.5 ms-1 B. 2.5 ms-1 C. 3.5 ms-1 D. 4.5 ms-1
3	The dimension of angular velocity is.	A. [LT-1] B. [LT-2] C. [T-1] D. [L-1T]
4	Artificial gravity is provided to the satellite by	A. Velocity B. Wetight C. Acceleration D. Rotating aroudn a verticla axis
5	The work doen by the centripetal force is.	A. Zero B. Minimum C. Maximum D. Negative work
6	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
7	When a body oves in circle the angle between its linear velocity and angular velocity is always.	A. Zero B. 60^o C. 45^o D. 90^o
8	In one revolution the anguar displacement covered is.	A. 60^o B. 90^o C. 360^o D. 180^o
9	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
10	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
11	The mud flies off the tyre of a moving bicycle which is along.	A. Tangent B. Normal C. To the centre D. Perpendicular
12	Moment off inertia depends upon	A. Mass B. Selection of axis of rotation C. Both a and b D. Speed of the body
13	If arc distanc is equal two times of radius of circle, then angle traced will be.	A. 30^o B. 40^o C. lrad D. 2 rad
14	a body rotating with angular velocity of 2 rad.s-1 and linear velocity is 2 ms-1, then radiuus of circle is.	A. 1 m B. 0.5 m C. 2 m D. 2.5 m
15	In the absence of external force, the chagne in momentum is	A. Zero B. Constatn

15	In the absence of external force, the chagne in momentum is:	C. Decreasing D. Increasing
16	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
17	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
18	The time rate of changer of angular displacement is called.	A. Linear velocity B. Linear Acceleration C. Angular Acceleration D. Angualr velocity
19	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
20	SI Unit of angular displacement	A. Meter B. Radian C. Kilometer D. Centimeter