Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	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
2	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
3	A stone at the end of long string is whirled in verticl circle at a constant speed The tension in the string willbe minimum when the stone is.	A. At the top of the cirlcle B. Halfway down C. At the bottom of circle D. Any where in the circle
4	The dimension of angular velocity is.	A. [LT-1] B. [LT-2] C. [T-1] D. [L-1T]
5	The ratio of angualr speed of minute's hand and hour's hand of watch is.	A. 12:1 B. 1:6 C. 6:1 D. 1:12
6	SI Unit of angular displacement	A. Meter B. Radian C. Kilometer D. Centimeter
7	Direction of angualr aceleration is always along.	A. x -axis B. y -axis C. z-axis D. The axis of rotation
8	A bodyof mass 10 kg is allowed to fall freely its apparent weight becomes.	A. 0 B. 8.9 N C. 9.8 N D. 10 N
9	The work doen by the centripetal force is.	A. Zero B. Minimum C. Maximum D. Negative work
10	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
11	Moment off inertia depends upon	A. Mass B. Selection of axis of rotation C. Both a and b D. Speed of the body
12	One radian is equal to.	A. 57.3^o B. 56.3^o C. 360^o D. 58.3^o
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 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

15	Artificial gravity is provided to the satellite by	A. Velocity B. Wetight C. Acceleration D. Rotating aroudn a verticla axis
16	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
17	SI Unit of angualr momentum is.	A. Js B. Kgmsec3 C. kgm2s-1 D. kgms-2
18	An astronaut is orbiting aroudn th Earth in a large capsule . Then.	A. He willbe in a state of weight lessness with respect to capsule B. He is freely falling towards the Earth C. A ball prjected at an angle has a straight line path as observed by him D. All the above
19	The time rate of changer of angular displacement is called.	A. Linear velocity B. Linear Acceleration C. Angular Acceleration D. Angualr velocity
20	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