Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Moment off inertia depends upon	A. Mass B. Selection of axis of rotation C. Both a and b D. Speed of the body
2	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
3	SI Unit of angular displacement	A. Meter B. Radian C. Kilometer D. Centimeter
4	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
5	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
6	The mud flies off the tyre of a moving bicycle which is along.	A. Tangent B. Normal C. To the centre D. Perpendicular
7	Artificial gravity is provided to the satellite by	A. Velocity B. Wetight C. Acceleration D. Rotating aroudn a verticla axis
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	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
10	In one revolution the anguar displacement covered is.	A. 60^o B. 90^o C. 360^o D. 180^o
11	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
12	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
13	SI Unit of angualr momentum is.	A. Js B. Kgmsec3 C. kgm2s-1 D. kgms-2
14	Ratational analogue of force is.	A. Torque B. Velocity C. Mass and veight D. Momentum

15	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
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	Every point of rotating rigid body has	A. Same angualr velocity B. Same linear velocity C. Same linear aceleration D. Same linear distance
18	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
19	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
20	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