Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	The force needed to bend the normally straight path of the particle into circle is.	A. Gravitational force B. Frictional force C. Centrifugal force D. Centripetal force
2	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
3	SI Unit of angular displacement	A. Meter B. Radian C. Kilometer D. Centimeter
4	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
5	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
6	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
7	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
8	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
9	In one revolution the anguar displacement covered is.	A. 60^o B. 90^o C. 360^o D. 180^o
10	Moment off inertia depends upon	A. Mass B. Selection of axis of rotation C. Both a and b D. Speed of the body
11	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
12	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
13	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
14	Artificial gravity is provided to the satellite by	A. Velocity B. Wetight C. Acceleration

		D. Rotating aroudn a verticla axis
15	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
16	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
17	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
18	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
19	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
20	One radian is equal to.	A. 57.3^o B. 56.3^o C. 360^o D. 58.3^o