

Physics ICS Part 1 Chapter 3 Online Test

Sr	Questions	Answers Choice
1	A man inside th artificial satllite feels weightlessness because the force of attrction due to the earth is.	<p>A. <p>Zero at pole</p> B. <p>Balanced by the force of attraction due to the moon</p> C. <p>Equal to the centripetal force</p> D. <p>Non effective due to some prticular design of the satellite</p></p>
2	An object in uniform circular motion make 10 revolution sin 2 seconds .Which of the following statement is true.	<p>A. <p>Its period is 2.0 s</p> B. <p>Its period is 20 s</p> C. <p>Its frequency is 5 Hz</p> D. <p>Its frequency is 0.2 Hz</p></p>
3	Ratational analogue of force is.	<p>A. <p>Torque</p> B. <p>Velocity</p> C. <p>Mass and veight&nbsp;</p> D. <p>Momentum</p></p>
4	When a ball is rotation in a circular path at the end of string is released. It will move.	<p>A. <p>To the centre</p> B. <p>A way from the centre</p> C. <p>Along the tangent</p> D. <p>Opposite to the motion&nbsp;</p></p></p>
5	Teh moment of inertial of body depends upon	<p>A. <p>Mass of the body and its distribution about axis of rotation</p> B. <p>Volume of the body</p> C. <p>Kinetic energy of the body</p> D. <p>Angular momentum of the body</p></p>
6	Moment off inertia depends upon	<p>A. <p>Mass</p> B. <p>Selection of axis of rotation</p> C. <p>Both a and b</p> D. <p>Speed of the body</p></p>
7	Law of consrvation of angular momentum is importnat in.	<p>A. <p>Diving</p> B. <p>Gymnastics</p> C. <p>Ice Skating</p> D. <p>All of these</p></p>
8	A body travellling in a circle at constatn speed.	<p>A. <p>Has constaltn velocity</p> B. <p>Has an inward radial acceleration</p> C. <p>l not accelerated</p> D. <p>Has an outward radical acceleration</p></p>
9	The work doen by the centripetal force is.	<p>A. <p>Zero</p> B. <p>Minimum</p> C. <p>Maximum</p> D. <p>Negative work</p></p>
10	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.	<p>A. <p>At the top of the circle</p> B. <p>Halfway down</p> C. <p>At the bottom of circle</p> D. <p>Any where in the circle</p></p>
11	Artificial gravity is provided to the satellite by	<p>A. <p>Velocity</p> B. <p>Wetight</p> C. <p>Acceleration&nbsp;</p> D. <p>Rotating around a verticla axis</p></p>
12	The ratio of angualr speed of minute's hand and hour's hand of watch is.	<p>A. <p>12:1</p> B. <p>1:6</p> C. <p>6:1</p> D. <p>1:12</p></p>
13	SI Unit of angular displacement	<p>A. <p>Meter</p> B. <p>Radian</p> C. <p>Kilometer</p> D. <p>Centimeter</p></p>

14	SI Unit of angular momentum is.	<p>A. Js</p> <p>B. Kgmsec^3</p> <p>C. $\text{kgm}^2\text{s}^{-1}$</p> <p>D. kgms^{-2}</p>
15	The force needed to bend the normally straight path of the particle into circle is.	<p>A. Gravitational force</p> <p>B. Frictional force</p> <p>C. Centrifugal force</p> <p>D. Centripetal force</p>
16	In one revolution the angular displacement covered is.	<p>A. 60°</p> <p>B. 90°</p> <p>C. 360°</p> <p>D. 180°</p>
17	The minimum velocity necessary to put a satellite into the orbit is called.	<p>A. Terminal velocity</p> <p>B. Critical velocity</p> <p>C. Artificial velocity</p> <p>D. Angular Velocity</p>
18	The direction of motion of a particle moving in a circle is along the	<p>A. Normal</p> <p>B. Tangent</p> <p>C. Away from centre</p> <p>D. Towards the centre</p>
19	A bottle of soda water is grasped from the neck and swung briskly in vertical circle. Near which portion of the bottle do the bubbles collect.	<p>A. Near the bottom</p> <p>B. In the middle of bottle</p> <p>C. Bubbles remain distributed throughout</p> <p>D. Near the neck of the bottle</p>
20	The rate of change of angular velocity is.	<p>A. Angular velocity</p> <p>B. Angular acceleration</p> <p>C. Angular displacement</p> <p>D. Angular speed</p>