

ECAT Physics Chapter 5 Circular Motion Online Test

Sr	Questions	Answers Choice
1	Formula for calculating moment of inertia of the bodies of one pair is same. Tick the answer.	A. Disc, sphere B. sphere, hoop C. Thin rod, hoop D. Hoop,disc
2	The useful unit of angular replacement in SI unit is:	A. Degree B. Revolution C. Radian D. Metre
3	One radian is	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these
4	A stone is tied to the end of a 20 cm along string is whirled in a horizontal circle. if centripetal acceleration is 9.8 m/sec ² , then its angular velocity in rad/sec is:	A. 22/7 B. 7 C. 14 D. 21
5	The number of "Earth stations" which transmit signals to satellites and receive signals from them are:	A. 3 B. 24 C. 126 D. 200
6	When angular acceleration is positive, the body rotates:	A. Slower B. Slowest C. Faster D. None of these
7	In case of planets, the necessary acceleration is provided by:	A. Gravitational force B. Coulomb force C. Frictional force D. None of these
8	Moment of linear momentum is called.	A. Moment arm B. Moment of inertia C. Inertia D. Angular momentum
9	A car is moves around a circular track of radius 0.3 m at the rate of 120 rev/min. The speed v of the car is:	A. 38 m/sec B. 3.8 m/sec C. 0.6 m/sec D. None of these
10	When a body is moves along a circular path with constant speed, it has an acceleration, which is always directed:	A. Along the tangent B. Toward the centre C. Away from the centre D. None of them
11	When body moves along a circular path with constant speed, it has an acceleration, which is always directed;	A. Along the tangent B. Towards the centre C. Away from the centre D. None of them
12	A point on the rim of a wheel moves 0.2 m where the wheel turns through an angle is 14.3 degrees. The radius of the wheel is:	A. 0.05 m B. 0.08 m C. 0.8 m D. 0.008 m
13	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
14	Circular motion is an example of motion in:	A. One dimension B. Two dimensions C. Three dimensions D. None of these
15	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of:	A. KHz B. MHz C. GHz D. BHz

16	When a body moves with a constant speed in a circle:	A. No work is done on it B. No acceleration is produced in th body C. Velocity remains constant D. None of these
17	When a body moves along a circular path with constant speed, it has an acceleration, which is always directed	A. Along the tangent B. Towards the centre C. Away from the centre D. None of them
18	A point on the rim of a wheel moves 0.2 m when the wheel turns through an angle of 14.3 degrees. The radius of the wheel is:	A. 0.05 m B. 0.08 m C. 0.8 m D. 0.008 m
19	A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be:	A. 49 rad/sec ² B. 1 rad/sec ² C. 0.16 rev/sec ² D. Both A and C E. Both B and C
20	The number of countries who manage the largest satellite system is:	A. 3 B. 24 C. 126 D. 200