Physics ECAT Pre Engineering Chapter 5 Circular Motion Online Test

Sr	Questions	Answers Choice
1	The number of "Earth Stations" which transmit signals to satellites and receive signals fro them are	A. 3 B. 24 C. 126 D. 200
2	The net force acting on a 100 kg man standing in an elevator accelerating downward with a = 9.8 m sec^{-2} comes out to be	A. 980 N B. 580 N C. 1380 N D. Zero
3	If a gymnast sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will	A. Increase B. Decrease C. Remain constant D. None of these
4	The number of countries who manage the largest satellite system is:	A. 3 B. 24 C. 126 D. 200
5	Satellites are held in orbits around Earth by its:	A. Gravitational field B. Magnetic field C. Own orbital motion D. Own spin motion
6	Which one is related to angular motion:	A. Moment of a force B. Moment of inertia C. Moment of momentum D. None of these
7	Angular momentum is a:	A. vector quantity B. Imaginary quantity C. Complex Quantity D. Scalar Quantity
8	Direction of angular momentum is determined by:	A. Right hand rule B. Head to tail rule C. Left hand rule D. None of them
9	A disc rolls down a hill and its speed at bottom is found to be 11.4 m/sec. Height of the hill is then nearly:	A. 10 m B. 12 m C. 13 m D. 15 m
10	Which of the following pairs does not have identical dimensions?	A. Torque and energy B. Energy and work C. Momentum and impulse D. Mass and moment of inertia
11	Moment of inertia depends upon:	A. Mass B. Selection of axis of rotation C. Both of them D. None of these
12	The center of mass of a sphere lies at:	A. The axis of the sphere B. Circumference of sphere C. Center of the sphere D. None of them
13	When a body moves with a constant speed in a circle:	A. No work is done on it B. No acceleration is produced in the body C. Velocity remains constant D. None of these
14	_____ plays the same role during angular motion as played by the mass in linear motion	A. Torque B. Angular Momentum C. Moment of a force D. Moment of inertia
15	Centripetal acceleration is also called _____ acceleration	A. Tangential B. Radial C. Angular D. None of them

D. None of them