

ECAT Physics Chapter 5 Circular Motion Online Test

Sr	Questions	Answers Choice
1	Angular momentum is a:	A. vector quantity B. Imaginary quantity C. Complex Quantity D. Scalar Quantity
2	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
3	One radian is equal to:	A. 30.3 ° C. 50.3

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	Centripetal acceleration is also called acceleration	A. Tangential B. Radial C. Angular D. None of these
12	A car is turning around a corner at 10 m/sec as it travels along an arc of a circle. If value of centripetal acceleration is 10 m/sec ² in this case, find radius of the circular path:	A. 1 m B. 5 m C. 10 m D. 15 m
13	When angular acceleration is positive, the body rotates:	A. Slower B. Slowest C. Faster D. None of these
14	The angular speed of a particle moving along a circular path is 5 Pie rad sec ⁻¹ , Its period of motion is:	A. 2.5 sec B. 0.06 sec C. 15.7 sec D. 0.4 sec
15	Circular motion is an example of motion in:	A. One dimension B. Two dimensions C. Three dimensions D. None of these
16	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
17	The useful unit of the angular displacement in SI unit is:	A. Degree B. Revolution C. Radian D. Metre
18	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to degree D. none of these
19	Direction of motion in circular motion	A. Changes off and on B. Changes continuously C. Does not change D. None of them
20	A toy car 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

D. Both A and C