

ECAT Physics Chapter 5 Circular Motion Online Test

Sr	Questions	Answers Choice
1	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
2	Centripetal acceleration is also called acceleration	A. Tangential B. Radial C. Angular D. None of them
3	The useful unit of the angular displacement in SI unit is:	A. Degree B. Revolution C. Radian D. Metre
4	Conventional the angular Velocity is Directed at an angle of:	A. >90 >90 B. 30° to the axis of rotation C. 0

		E. Both B and C
1	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
12	The number of "Earth Stations" which transmit signals to satellites and receive signals fro them are	A. 3 B. 24 C. 126 D. 200
13	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these
14	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
15	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
16	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
17	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
18	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of	A. KHz B. MHz C. GHz D. BHz
19	Radian is defined as the angle subtended at the center of a circle by an arc of:	A. Length equal to its diameter B. Length equal to its radius C. Any length D. None of these
20	The number of "Earth stations" which transmit signals to satellites and receive signals from them are:	A. 3 B. 24 C. 126 D. 200

D. Both A and C