

## Physics ECAT Pre Engineering Chapter 5 Circular Motion Online Test

Sr	Questions	Answers Choice
1	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
2	Einstein's theory about gravity is better than Newton's because it gave explanation of:	A. Inverse square law B. Bending of light C. Both A and B D. None of above
3	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of:	A. KHz B. MHz C. GHz D. BHz
4	The number of "Earth stations" which transmit signals to satellites and receive signals from them are:	A. 3 B. 24 C. 126 D. 200
5	The net force acting on a 100 kg man standing in an elevator accelerating downward with $a = 0.8 \text{ m sec}^{-2}$ comes out to:	A. 980 N B. 580 N C. 1380 N D. Zero
6	If a gymnast is 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. Remains constant D. None of these
7	Conventionally the angular Velocity is Directed at an angle of:	A. $90^\circ$ to the axis of rotation B. $30^\circ$ to the axis of rotation C. $0^\circ$ to the axis of rotation D. None of above
8	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
9	One radian is	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these
10	Centripetal acceleration is also called _____ acceleration	A. Tangential B. Radial C. Angular D. None of these

		D. None of these
11	Direction of motion _____ in circular motion	A. Changes off and on B. Changes continuously C. Does not change D. None of them
12	An axis of rotation	A. Is a straight line B. Is normal to the plane of rotation C. Passes through pivot point O D. All of them
13	Conventionally the angular velocity is directed at an angle of	A. $90^\circ$ to the axis of rotation B. $30^\circ$ to the axis of rotation C. $0^\circ$ to the axis of rotation D. None of the above
14	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 cm C. 0.8 m D. 0.008 m
15	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of	A. KHz B. MHz C. GHz D. BHz