

ECAT Physics Chapter 5 Circular Motion

Sr	Questions	Answers Choice
1	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
2	Direction of motion in circular motion	A. Changes off and on B. Changes continuously C. Does not change D. None of them
3	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
4	Angular velocity is a:	A. Scalar quantity B. Vector quantity C. Complex quantity D. None of these
5	The number of countries who manage the largest satellite system is:	A. 3 B. 24 C. 126 D. 200
6	Direction of motion in circular motion	A. Changes off and on B. Changes continously C. Does not change D. None of them
7	Final velocity of a hoop is the final velocity of a disc having same mass and radius on coming down an inclined plane.	A. Greater than B. smaller than C. Equal to D. None of these
8	A stone tied to the end of a 20 cm long string is whirled in a horizontal circle. If centripetal acceleration is 9.8 m/sec ² , then its angular velocity is rad/sec is:	A. 22/7 B. 7 C. 14 D. 21
9	A rotating wheel accelerates up to the value of 0.75 rev/sec ² after 2 seconds of its start. Its angular velocity becomes:	A. 9.42 rad/sec B. 2.6 rev/sec C. 1.5 rev/sec D. Both A and C
10	Satellites are held in orbits around Earth by its:	A. Gravitational field B. Magnetic field C. Own orbital motion D. Own spin motion
11	Einstein's theory about gravity if 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
12	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
13	A body moving along the circumference of a circle of radius R completes one revolution. The radius of a covered path to the angle subtended at the centre is:	A. Radius of the circle B. Twice the radius C. Thrice the radius D. None of these

A. 90<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-size: initial

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: 16 The useful unit of the angular displacement in SI unit is: 17 One radian is A greater than one degree B. Less than one degree C. Equal to one degree D. None of these 18 A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be: 19 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 20 Centripetal acceleration is also called acceleration A constant acceleration A constant acceleration A constant acceleration A constant	14	Conventional the angular Velocity is Directed at an angle of:	repeat: Initial; background-attachment: initial; background-origin: initial; background-clip: initial;">° to the axis of rotation B. 30 ° to the axis of rotation C. 0 ° to the axis of rotation D. None of above
The useful unit of the angular displacement in SI unit is: B. Revolution C. Radian D. Metre A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of these A. 49 rad/sec ² B. 1 rad/sec ² B. 1 rad/sec ² C. 0.16 rev/sec ² D. Both A and C E. Both B and C 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 Centripetal acceleration is also called acceleration C. Radian D. Metre A. 49 rad/sec ² C. 0.16 rev/sec ² D. Both A and C E. Both B and C A 0.05 m B. 0.08 m D. 0.008 m D. 0.008 m A. Tangential B. Radial C. Angular	15		B. 0.08 m C. 0.8 m
B. Less than one degree C. Equal to one degree D. None of these A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be: A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be: A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average B. 1 rad/sec ² C. 0.16 rev/sec ² D. Both A and C E. Both B and C A 0.05 m B. 0.08 cm C. 0.8 m D. 0.008 m A. Tangential B. Radial C. Angular	16	The useful unit of the angular displacement in SI unit is:	B. Revolution C. Radian
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