

Rotational motion problems worksheet

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This test paper with questions and answers for Grade 11 Physics will be very useful for exams and help you to score good marksClass 11 Physics Worksheet for Rotational MotionRotational Motion MCQ Questions with Answers Class 11 Physics Question- The moment of inertia of a body does not depend on:(b) the angular velocity of the body(c) the axis of rotation of the body(d) the distribution of the mass in the bodyQuestion- The ratio of the squares of radii of gyration of a circular disc and a circular ring of the same radius about a tangential axis is :20. Moment of inertia of a uniform circular disc about a diameter is I. Its moment of inertia about an axis perpendicular to its plane and passing through a point on its rim will be:Question- When a steady torque or couple acts on a body, the body:(a) continues in a state of rest or of uniform motion by Newton's 1st law(b) gets linear acceleration by Newton's 2nd law(c) gets an angular acceleration(d) continues to rotate at a steady rate Question- The driving side belt has a tension of 1600 N and the slack side has 500 N tension. The belt turns a pulley 40 cm in radius at a rate of 300 rpm. This pulley drives a dynamo having 90% efficiency. How many kilowatts are being delivered by the dynamo ?Question- The angular velocity of a wheel increases from 100 rps to 300 rps in 10 s. The number of revolutions made during that time is:Question- When a ceiling fan is switched off, its angular velocity falls to half while it makes 36 rotations. How many more rotations will it make before coming to rest?Question- A 6 kg ball starts from rest and rolls down a rough gradual slope until it reaches a point 80 cm lower than its starting point. Then the speed of the ball is :Question- A uniform solid sphere rolls on a horizontal surface at 20 ms⁻¹. It then rolls up an incline having an angle of inclination at 30° with the horizontal. If the friction losses are negligible, the value of height h above the ground where the ball stops is :Question-A particle is moving along a straight line parallel to x-axis with constant velocity. Its angular momentum about the origin :Question- If a gymnast, sitting on a rotating stool with his arms outstretched, suddenly lowers his arms :(a) the angular velocity increases(b) his moment of inertia increases(c) the angular velocity remains same(d) the angular momentum increasesQuestion- A solid sphere, a hollow sphere and a ring are release from top of an inclined plane (frictionless) so that they slide down the plane. Then maximum acceleration down the plane is for (no rolling) Question-A particle performing uniform circular motion has angular momentum L. If its angular frequency is doubled and its kinetic energy halved, then the new angular momentum is : Question-A solid sphere is rotating in free space. If radius of the sphere is increased keeping mass same which one of the following will not be affected ? (d) Rotational kinetic energyQuestion- Angular momentum of the particle rotating with a central force is constant due to(b) constant linear momentumQuestion-A thin horizontal circular disc is rotating about a vertical axis passing through its centre. An insect is at rest at a point near the rim of the disc. The insect now moves along a diameter of the disc to reach its other end. During the journey of the insect, the angular speed of the disc (a) continuously decreases(b) continuously increases(c) first increases and then decreasesQuestion- A bob of mass m attached to an inextensible string of length l is suspended from a vertical support. The bob rotates in a horizontal circle with an angular speed ω rad/ s about the vertical. About the point of suspension :(a) angular momentum changes in magnitude but not in direction.(b) angular momentum changes in direction but not in magnitude(c) angular momentum changes both in direction and magnitude(d) angular momentum is conserved.Question-A disc rotates about its axis of symmetry in a horizontal plane at a steady rate of 3.5 revolutions per second. A coin placed at a distance of 1.25 cm from the axis of rotation remains at rest on the disc. The coefficient of friction between the coin and the disc is : (g = 10 m/s²)Question-A cricket mat of mass 50 kg is rolled loosely in the form of a cylinder of radius 2m. Now again it is rolled tightly so that the radius becomes 3/4th of original value; then the ratio of moment of inertia of mat in the two cases is:Question- A circular disc is to be made using iron and aluminium. To keep its moment of inertia maximum about a geometrical axis, it should be so prepared that:(a) aluminium at interior and iron surrounds it(b) iron at interior and aluminium surrounds it(c) aluminium and iron layers in alternate order(d) sheet of iron is used at both external surface and aluminium sheet as inner material.More question-1 Mark TypeQ1. On what factors, does the position of centre of mass of a rigid body depend?Q2. What is an isolated system? What will be the nature of motion of centre of mass of isolated sys?Q3. Which physical quantity is conserved when a planet revolves around the sun?Q4. Name rotational analogue of force. Give its S.I. Unit. Q5.State factors on which radius of gyration of a body depend.Q6. If friction can provide necessary centripetal force, why should the road be banked?Q7. What is a rigid body? Q8. Why are handles at max possible distance from the hinges in a door?Q9. Why is it easier to balance a bicycle in motion? Q10.What are the factors on which moment of inertia of a body depends?Q11. Why are spokes fitted in a cycle wheel? Q12.Why does a pilot not fall down when his airplane takes a vertical loop?Q13. If the ice on the polar caps of the earth melts, how will it affect the duration of the day?2/3 mark type - Q14. If no external force is acting on a two body system, what will happen to - (a) Velocity of COM. (b) Angular momentum.Q15. How does a diver manage to make somersaults in air?Q16. The angular speed of a motor wheel is increased from 1200 rpm to 3120 rpm in 16 seconds. (i) What is its angular acceleration, assuming acceleration as uniform? (ii) How many revolutions does wheel make during this time?Q17. State the two theorems of moment of inertia.Students must free download and practice these worksheets to gain more marks in exams. 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