

Circular Motion

Questions on Circular Motion, Paper 1

- No. Question
- 1 A body is allowed to slide on a frictionless track from rest under gravity. The track ends in a circular loop of diameter D . What should be the minimum height of the body in terms of D , so that it may successfully complete the loop?
- (a) $\frac{4}{5}D$
 (b) $\frac{5}{4}D$
 (c) D
 (d) $2D$
- 2 A body is moving along a circular path with variable speed. It has
- (a) a radial acceleration
 (b) a tangential acceleration
 (c) zero acceleration
 (d) both tangential and radial accelerations
- 3 A body is traveling in a circle at constant speed. It
- (a) has constant velocity.
 (b) has no acceleration
 (c) has an inward acceleration
 (d) has an outward radial acceleration
- 4 A body of mass 100 gram, tied at the end of a string of length 3 m rotates in a vertical circle and is just able to complete the circle. If the tension in the string at its lowest point is 3.7 N, then its angular velocity will be _____ ($g = 10 \text{ m/s}^2$)
- (a) 4 rad/s
 (b) 3 rad/s
 (c) 2 rad/s
 (d) 1 rad/s
- 5 A body of mass 500 gram is rotating in a vertical circle of radius 1 m. What is the difference in its kinetic energies at the top and the bottom of the circle?
- (a) 4.9 J
 (b) 19.8 J
 (c) 2.8 J
 (d) 9.8 J
- 6 A body of mass m is suspended from a string of length l . What is the minimum horizontal velocity that should be given to the body in its lowest position so that it may complete full revolution in the vertical plane with the point of suspension at the center of circle?
- (a) $\sqrt{2gl}$ (b) $\sqrt{3gl}$
 (c) $\sqrt{4gl}$ (d) $\sqrt{5gl}$
- 7 A body of mass m performing UCM with frequency n along the circumference of circle having radius r , force is given by
- (a) $4\pi nm^2$
 (b) $4\pi^2 n^2 m$
 (c) $\pi^2 n^2 mr$
 (d) $\frac{1}{2} \pi nm^2$
- 8 A bucket containing water is tied to one end of a rope of length 2.5 m and rotated about the other end in a vertical circle. What should be the minimum velocity of the bucket at the highest point, so that the water in the bucket will not spill? ($g = 10 \text{ m/s}^2$)
- (a) 2.5 m/s
 (b) 4 m/s
 (c) 5 m/s
 (d) 7 m/s
- 9 A bucket tied at the end of a 1.6 m long string is whirled in a vertical circle with a constant speed. What should be the minimum speed so that the water from the bucket does not spill when the bucket is at the highest position?
- (a) 4 m/sec.
 (b) 6.25 m/sec.
 (c) 16 m/sec.
 (d) None of these
- 10 A can filled with water is revolved in a vertical circle of radius 4 metre and the water does not fall down. The time period of revolution will be
- (a) 1 sec
 (b) 10 sec
 (c) 8 sec
 (d) 4 sec
- 11 A car has a linear velocity v on a circular track of radius r . If its speed is increasing at a rate of $a \text{ m/s}^2$, then its resultant acceleration will be
- (a) $\sqrt{\left(\frac{v^2}{r}\right)^2 + a^2}$ (b) $\sqrt{\left(\frac{v^2}{r}\right)^2 - a^2}$
 (c) $\left(\frac{v^2}{r}\right)^2 + a^2$ (d) $\left(\frac{v^2}{r}\right)^2 - a^2$
12. A car is moving in a circular track of radius 10 metre with a constant speed of 10 m/sec. A plumb bob is suspended from the roof of the car by a light rigid rod of 1 metre long. The angle made by the rod with the track is
- (a) zero
 (b) 30°
 (c) 45°
 (d) 60°

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ML Morrison



Circular Motion Questions Paper 1 Geli Question Papers:

Army-Navy-Air Force Register and Defense Times ,1905 Physics Briefs ,1980 **Circular Motion** Sanjay

Kumar,2020-10-14 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Our main goals in writing this text book are to present the basic concepts and principles of physics that students need to know for their competitive exams to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts to develop students problem solving skills and confidence in a systematic manner to motivate students by integrating real world examples that build upon their everyday experiences Main Features of the Book 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by thee dots Answer keys with hints and solutions are provided at the end of the chapter

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