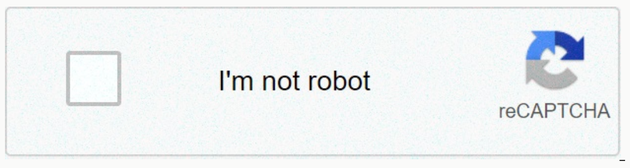

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Circular motion mcq questions and answers pdf

The above question paper contains MCQ (multiple choice questions) on various entrance examinations conducted in India, namely circular motions taken from MHT-CET, IIT-JEE, AIIMS, CPMT, NCERT, APMC, etc. I hope it will help prepare students for learning. Please contact us at .net.in to let mail@questionpapers us know of your experience of seeing these question sheets. As a result of the EU General Data Protection Regulation (GDPR). At this time, we do not allow internet traffic from countries within the European Union to Byju's website. No tracking or performance measurement cookies were provided on this page. This is a circular motion MCQ exercise sheet. The answer key for the arc motion MCQ practice sheet is given at the end of the sheet. Suitable for preparation of JEE (main) and AIPMT. If you like it or find some errors, please share or comment. 1. Particles are rotating in a circle that increases their velocity evenly. Which of the following is a constant? (a) centrilyced acceleration (b) tangent acceleration (c) angular acceleration (d) none of these. 2. Insects with a mass of m = 3 kg are inside a vertical drum with a radius of 2 m and a rotation with a angular velocity of 5 rad s–1. Insects do not fall. The minimum coefficient of friction required is (a) 0.5 (b) 0.4 (c) 0.2 (d) none of these. 3. The particles are moving on a circular path with a radius of 10 m. At any moment the speed is 5 m/s and the speed is increasing at a speed of 2 m/s2. The magnitude of the net acceleration at this moment is (a) 3.2 m/s2 (b) 2 m/s2 (c) 2.5 m/s2 (d) 4.3 m/s2 4. Coins placed on the slip of the rotary table are placed at a distance of 9 cm from the center. If the corner speed of the turntable triples, (a) 27cm (b) 9cm (c) 3cm (d) 1cm 5, it just slips. Particles move in a uniform circular motion. Choose the wrong statement: (a) particles move at a constant speed (b) acceleration is always perpendicular to velocity (c) particles move at uniform acceleration (d) particles move at variable speeds. 6. The bob with mass m is suspended by the length string l1 and is given the minimum speed required to complete a full circle on a vertical surface. At the highest point, it initially elastically collides with another bob with a mass of '2m' suspended by a string of l2 lengths in rest. For the second bob, both strings are less mass and extable, and after the collision, we get the minimum speed needed to complete a full circle on a vertical plane, and the ratio of the value of 'n' is (a) 3(b)6(c)9(d)57. The direction of the angular velocity vector follows: (a)Path (b) Inner Radius (c) Facing Radius (d) Axis of Rotation 8. Stones are tied with strings and rotate horizontally in circles. When the string suddenly breaks, the stone moves: (a) tangent to movement (b) away from the center and (c) towards the center (d) none of the above 9. A stretchable ring with a radius of 1 m and a mass density of 0.1 kg m–1 can withstand a maximum tension of 40 N. The maximum angular velocity that can be rotated in a circular path is: (a) 20 rad/s (b) 18 rad/s (c) 16 rad/s (d) 15 rad/s 10. Two particles of equal mass rotate at the same speed in circular paths with a radius of r1 and r2, respectively. The ratio of their centrim power is (a) (b) (c) (d) 11. The flywheel angular velocity making 120 revolutions per minute is an example: (a) 2p rad/s (b) 4p2 rad/s (c) p rad/s (d) 4p rad/s 12. A mass of 2 kg is rotated in a horizontal circle by a string at an initial speed of 5 revolutions per minute. If the radius is kept constant, the tension of the string is doubled. The new speed is almost: (a) (b) 10 revolutions per minute (c) (d) 13. The 16-kilogram mass stone is attached to a string 144 meters long and swirled in a horizontal circle. The maximum tension a string can withstand is 16 N. The maximum speed of the revolution that can be given without breaking the stone is: (a) 20 ms–1 (b) 16 ms–1 (c) 14 ms–1 (d) 12 ms–1 14. Particles move at a constant speed v along the circular path of radius r and complete the circle at time T. The acceleration of the particles is (a) (b) (c) (d) 15. Particles around the circle rotate twice as fast, and their angular velocity is halved. What happens to the acceleration of the mind? (a) quadruple (b) double (c) halved (d) 16.Particles with a mass of 2 kg move along a circular path with a radius of 1 m if their angular velocity is 2 p rad s–1 The centrilycing force on it is: (a) 4 p N (b) 8 p N (c) 4 p4 N (d) 8 p2 N Answer key: 1.b 2. c 3. 4. d 5. c 6. c 7. d 8. 9. 10₀ 11. d 12. d 13. d 14. 15. d 16. d Unified Circular Motion Multiple Choice Questions (MCQ), a unified circular motion quiz answers PDFs to study secondary school physics for online certificate courses. Dynamics Multiple Choice Questions and Answers (MCQ), Unified Circular Movement quiz questions and learning class answers. Learn Newton's movements, dynamics and friction, and the laws of physics:Uniform round motion test preparation for online courses. If the string is stretched by two opposite forces of 10 N, the string tension is the multiple choice question (MCQ) of ohmic and non-ohmic conductors with options 5n, 20 n, 10 n, and zero for distance learning classes. Free physics student portal for online learning dynamics questions online course. MCQ: If the string is stretched by two opposing forces of 10 N, the tension of the string is MCQ: road banking prevents the vehicle rolling slip of the vehicle on the vehicle skid with the speeding of the vehicle MCQ: the cream separator is the same as centriphoto Acting on the principle GE machine reiko floating screw gauge MCQ: the force holding the object in the circular path is called centrimia force friction force centrimia force inertia MCQ: a brick with a mass of 100 g is attached to a rope 1m in length. The bricks are rotated in circles at a speed of 5ms-1. Rope Tension will be CBSE Class 9 Science MCQ in Chapter 8: Exercise is provided here with answers and detailed explanations. These MCQs are important from a testing point of view. By practicing these questions, students need to know the key concepts they must prepare to get a high rating for the objective type of question in class 9 science annual exam 2020. Check below the important MCQ in Motion: 1. If the displacement of the object is proportional to the square of time, the object moves as follows: (a) uniform velocity (b) uniform acceleration (c) increase acceleration (d) decrease acceleration Answer: (b) Uniform acceleration 2. From a given v-t graph, it can be inferred that the object is (a) rest (b) moving at a uniform motion (c) moving at a uniform acceleration (d) an uneven motion answer: (b) uniform motion 3. You're having fun riding a marriage go-round where a boy is moving at a constant speed of 10 m/s. It is answered by the boy: (a) rest (b) move without acceleration (c) accelerate motion (c) move at a uniform speed: (c) acceleration motion 4. The particles are moving in a circular path with a radius of r. The displacement after the semicir circle looks like this: (a) zero (b) πr (c) 2r (d) 2πr answer: (c) 2r 5. Which of the following can be zero for a moving body? i. Average speed ii. Distance moved 3. Average velocity iv. displacement (a) (i) (i) (i) and (ii) (i) and (iv) (d) only (iv) answer: (c) (i) and (iv) 6. Which of the followingAre you correct in regards to the speed and speed of the moving body? (a) The speed of the moving body is always higher than its speed (b) the speed of the moving body is always higher than its speed (c) the speed of the moving body is the speed in a given direction (d) the speed of the moving body is its speed in a given direction Answer: (d) The speed of the moving body is the speed in a predetermined direction of 7.10 m/s When the driver of a car traveling at speed brakes and rests the car at 20 s, the delay will be: (a) + 2 m/s2 (b) - 2 m/s2 (c) - 0.5 m/s2 (d) + 0.5 m/s2 Answer: +0.5 m/s2 8. The speed of the car - the time graph is given here. Use the data in the chart to calculate the total distance that the car covers. (a) 1250 m (b) 875 m (c) 1500 m (d) 870 m Answer: (b) 875 m 9. The 1000 km mass car is traveling at a speed of 10 meters/s. If the speed time graph for this car is a horizontal line parallel to the time axis, then at the end of 25 s the speed of the car is (a) 40 m/s (b) 25 m/s (c) 10 m/s (d) 250 m/s Answer: (c) 10 m/s 10. Which of the following is the least common case of uniform circular motion? (a) movement of the earth around the sun (b) movement of the toy train on the circular track (c) motion of the racing car on the circular track (d) movement of time on the dial of the clock Answer: (c) Movement of the racing car on the circular track 11. Is the travel distance and displacement equal in the next movement case? i. If the car is traveling on a straight road ii. If the car is traveling on a circular path iii. The reiko is moving to and from iv. The Earth answers only (a) around the sun (ii) (ii) (b) (i) and (c) (ii) and (iv) (d) only (i) answers: (d) only (i)12. The car is traveling at 90 km/h. The brakes are applied to produce a uniform acceleration of 0.5 m/s2. Do you find out how far the car will go before it is bringed to rest? (a) 8100 m (b) 900 m (c) 625 m (d) 620 m Answer: (c) 625 m 13. In free fall, the velocity of the stone increases evenly at equal time intervals under the influence of earth's gravity. So what can we say about the movement of this stone?(b) Heterogeneous acceleration (c) Delay (d) Constant velocity answer: (a) Uniform acceleration 14. The numerical ratio of displacement distance and distance of moving objects is: (a) always less than 1 (b) less than 1 (c) always 1 (d) 1 or more answers: (b) 1 or less than 1 15. Four cars , A, B, C and D, are traveling on a leveled straight road. The distance time graph is shown in the figure below. Which of the following is the correct statement about the movement of these cars? (a) Car A is faster than car D (b) car B, car D is slowest (c) car D is faster than car C (d) car C (d) car C is the slowest answer: () b) Car B is the slowest B is the slowest You can also check the MCQ on other chapters from the link below: Important MCQ of Class 9 Science Chapter - 1 Important MCQ of Class 9 Science Chapter - 2 important MCQs in Class 9 Science Chapters - 3 Important MCQs in Class 9 Science Chapters - 4 Important MCQs in Class 9 Science Chapters - 5 Important MCQs in Class 9 Science Chapters - 6 Important MCQs in Class 9 Science Chapters - 7 links in other chapters are provided very soon. Also Check: Math, Science, Social Science & English Exam 2020 CBSE Class 9 Check for Science Important Questions & Answers 2020 CBSE Class 9 Important Questions & Answers for 9Th Annual Exams 2020 Class 9 Science NCERT Book and Solutions PDF Class 9 Math NCERT Book & Solution PDF PDF PDF

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