Dc Pandey Mechanics Part 2 Solutions

A body of density is dropped from rest from a height h into a lake of density o p . The maximum depth the body sinks inside the liquid is (neglect viscous effect of liquid) (a) dca8524782 A horizontal platform with an object placed on it is executing SHM in the vertical direction. The amplitude of oscillation is 4x10m. What must be least period of these oscillations, so that the object is not detached from the platform? Take dca8524782 A mass Mis suspended from a massless spring. An additional mass m stretches the spring further by a distance dca8524782 A liquid stands at the plane level in U-tube when at rest. If areas of cross-section of both the limbs are equal, what will be the difference in heights h of the liquid in the two limbs of U-tube, when the system is given an acceleration a in dca8524782 Two simple harmonic motions are represented by the following equations dca8524782 75 cm of Hg and the density of water to be 1/10 of the density of the mercury, the depth of the lake is (a) 5 m (d) 20 m dca8524782 D. C. Pandey NEET Best questions of Fluid mechanics part-2 - D. C. Pandey NEET Best questions of Fluid mechanics part-2 47 minutes - For complete **Physics**, video Lectures \u0026 NCERT, HCV AND I.E. IRODOV **Solutions**, Visit www.physicspaathshala.yolasite.com or ... dca8524782 An open U-tube contains mercury. When 11.2 cm of water is poured into one of the arms of the tube, how high does the mercury rise in the other arm from its initial level? (a) 0.82 cm (b) 1.35 cm dca8524782 A metal ball immersed in alcohol weighs w, at 0°C and wz at 59°C. The coefficient of cubical expansion of the metal is less than that of alcohol. Assuming that the density of the metal is large compared to that of alcohol, it can be shown dca8524782 Keyboard shortcuts dca8524782 review of dc pandey mechanics volume-2(understanding physics jee main and advanced). - review of dc pandey mechanics volume-2(understanding physics jee main and advanced). 6 minutes, 43 seconds - JEE Main and Advanced **Mechanics Part 2**, 2021 . dca8524782 SHM MECHANICS D C PANDEY OBJECTIVE LEVEL 2 - SHM MECHANICS D C PANDEY OBJECTIVE LEVEL 2 4 minutes, 10 seconds - Problems and **solution**, discussion IIT JEE NEET foundation of **physics**,. dca8524782 Intro dca8524782 A cubical block of mass M vibrates horizontally with amplitude of 4.0 cm and a frequency of 2.0 Hz. A small block of mass m is palced on the bigger block. In order that the smaller block does not slide on the bigger block, the minimum value of the coefficient of static friction between the two blocks is (a) 0.36 (c) 0.64 dca8524782 A block of mass 100 g attached to a spring of spring constant 100 N/m is lying on a frictionless floor as shown. The block is moved to compress the spring by 10 cm and then released. If the collisions with the wall in front are elastic then the time dca8524782 A spherical object of mass 1kg and radius 1m is falling vertically downward inside a viscous liquid in a gravity free space. At a certain instant the velocity of the sphere is 2 m/s. If the coefficient of viscosity of the liquid is SI units, then velocity of ball will become 0.5 m/s after a time. dca8524782 The volume of an

air bubble becomes three times as it rises from the bottom of a lake to its surface. Assuming temperature to be constant and atmospheric pressure to be 75 cm of Hg and the density of water to be 1/10 of the (a) 5 m dca8524782 Two masses 8 kg and 4 kg are suspended together by a massless spring of spring constant 1000 N/m. When the masses are in equilibrium 8 kg is removed without disturbing the system. The amplitude of oscillation is dca8524782 A body of density is dropped from rest from a heighth into a lake of density o p . The maximum depth the body sinks inside the liquid is (neglect viscous effect of liquid) (a) dca8524782 A container has two immiscible liquids of densities P, and Pl. A capillary tube of radius r is inserted in the liquid so that its bottom reaches upto the denser liquid. The denser liquid rises in the capillary and attains a heighth from the interface of the liquids, which is equal to the column length of the lighter liquid. Assuming angle of contact to be zero, the surface tension of heavier liquid is dca8524782 A tank is filled up to a helght 2H with a liquid and is placed on a platform of height H from the ground. The distance x from the ground where a small hole is punched to get the maximum range Ris dca8524782 A mass Mis attached to a horizontal spring of force constant k fixed one side to a rigid support as shown in figure. The mass oscillates on a frictionless surface with time period T and amplitude A. When the mass is in equilibrium position, another mass m is gently placed on it. What will be the new dca8524782 A particle performs SHM in a straight line. In the first second, starting from rest, it travels a distance and in the next second it travels a distance b in the same side of mean dca8524782 DC Pandey Understanding Physics 06 Kinematics Subjective 02|| by Abhishek Kumar Physics - DC Pandey Understanding Physics 06 Kinematics Subjective 02|| by Abhishek Kumar Physics 5 minutes, 47 seconds - Ask your doubts in the comment section below. This video has **solutions**, of Book by **DC Pandey**, \"Understanding **Physics**,\" for JEE ... dca8524782 Free Download Solutions | Physics | MECHANICS Vol 2 | by DC Pandey | IIT JEE | MAIN \u0026 ADVANCED - Free Download Solutions | Physics | MECHANICS Vol 2 | by DC Pandey | IIT JEE | MAIN \u0026 ADVANCED 46 seconds - Click on Link to Download the **Solutions**, in PDF: https://drive.google.com/file/d/0B_0oxH_pZb4mcWhDNllXcEVQOTQ/view. dca8524782 A large open tank has two holes in the wall. One is a square hole of side L at a depth y from the top and the other is a circular hole of radius Rat a depth 4y from the top. When the flowing out per second from holes are the same. Then Ris equal to dca8524782 20. A container has two immiscible liquids of densities P, and Pl. A capillary tube of radius r is inserted in The denser liquid rises in the capillary and attains a heighth from the interface of the liquids, which is equal to the column length of the lighter liquid. Assuming angle of contact to be zero, the surface tension of heavier liquid is dca8524782 The volume of an air bubble becomes three times as it rises from the bottom of a lake to its surface. Assuming temperature to be constant and atmospheric pressure to be 75 cm of Hg and the density of water to be 1/10 of the density of the mercury, the depth of the lake is (a) 5 m dca8524782 The denser liquid rises in the capillary and attains a heighth from the interface of the liquids, which is equal to the column length of the lighter liquid. Assuming angle contact to be zero, the surface tension of heavier liquid is dca8524782 The surface energy of a liquid drop is E. It is sprayed into 1000 equal droplets. Then its surface energy becomes (c) 100 dca8524782 If a capillary tube of radius r is immerse in water, the mass of water

risen in capillary is M. If the radius of capillary be doubles, the mass of water risen in the capillary will be dca8524782 An open tank containing nonviscous liquid to a height of 5 m is placed over the ground. A heavy spherical ball falls from height 40 m over the ground in the tank. Ignoring air between ball and bottom of tank is perfectly elastic dca8524782 A mass is suspended separately by two springs of spring constants k, and ky in successive order. The time periods of oscillations in the two cases are T, and Trespectively. If the same mass be suspended by connecting the two springs in parallel, (as shown in figure) then the time period of dca8524782 A wooden plank of length 1m and uniform cross-section is hinged at one end to the bottom of a tank as shown. The tank is filled with water upto a height of 0.5m. The specific gravity of the plank is 0.5. The angle made by the plank in dca8524782 Spherical Videos dca8524782 A candle of diameter d is floating on a liquid in a cylindrical container of diameter D D d as shown in figure. If it is burning at the rate of 2 cm/h, then the top of the candle will (a) remain at the same height dca8524782 A wooden block of mass 8 kg is tied to a string attached to the bottom of the tank. In the equilibrium the block is completely immersed in water. If relative density of wood is 0.8 and g = 10 ms, the tension T, in the string is dca8524782 SOLUTIONS TO DC PANDEY-LAWS OF MOTION (JEE ADVANCED: SINGLE OPTION CORRECT: QUESTION NO: 2) - SOLUTIONS TO DC PANDEY-LAWS OF MOTION (JEE ADVANCED: SINGLE OPTION CORRECT: QUESTION NO: 2) 4 minutes - Hello cynllun the question number **2**, says that there is a spear of mass 1 kg which is inside a cube and is the cube is moving with ... dca8524782 A piece of steel has a weight w in alr, w, when completely immersed in water and w, when completely immersed in an unknown liquid. The relative density (specific gravity) of dca8524782 Arihant JEE Main \u0026 Advanced Mechanics Volume 2 by DC Pandey | Arihant DC Pandey Mechanics Volume 2 - Arihant JEE Main \u0026 Advanced Mechanics Volume 2 by DC Pandey | Arihant DC Pandey Mechanics Volume 2 8 minutes, 48 seconds - in this video you will get the full book review of Arihant DC Pandey mechanics volume 2 for JEE main and advance. dca8524782 A linear harmonic oscillator of force constant 2 x 10 N/m and amplitude 0.01 m has a total mechanical energy of dca8524782 A pump is designed as a horizontal cylinder with a piston area A and an outlet orifice arranged near the axis of the cylinder. Find the velocity of outflow of liquid from pump, if the piston moves with a constant velocity under the action of dca8524782 Search filters dca8524782 Playback dca8524782 General dca8524782 D. C. Pandey NEET Best questions of SHM part-02 - D. C. Pandey NEET Best questions of SHM part-02 44 minutes - For complete **Physics**, video Lectures \u0026 NCERT, HCV AND I.E. IRODOV **Solutions**, Visit www.physicspaathshala.yolasite.com or ... dca8524782 Subtitles and closed captions dca8524782 A small ball mass m falling under gravity in a viscous medium experiences a drag force proportional to the instantaneous speed y such that Fing-ku. Then the dca8524782 Two cylinders of same cross-section and length L but made of two materials of densities d, and d, are connected together to a form a cylinder of length 2. The combination floats in a liquid of density d with a length 1/2 above the dca8524782 The period of oscillation of a simple pendulum of length L suspended from the roof of a vehicle which moves without friction down an inclined plane of inclination a is, given by dca8524782 A block of mass m, attached to a spring of spring constant , oscillates on a smooth horizontal table. The other end of the spring is a fixed to a wall. The block

has a speed v when the spring is at its natural length. Before coming to an instantaneous rest. If the block moves a distance x from the mean position, then dca8524782 A barometer kept in an elevator reads 76 cm when it is at rest. If the elevator goes up with increasing speed, the reading will be dca8524782