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Solution : U = 1/2 CV² i) U₁ = 1/2 × 6 × 10⁻⁴ × (250)² = 3 × 10⁻⁴ × 250 × 250 = 3 × 10⁻⁴ × 62500 = 18.75 J ii) Effective capacity of capacitor is given by C = C₁ + C₂ = 6 × 10⁻⁴ + 6 × 10⁻⁴ = 12 × 10⁻⁴ F The total charge Q will remain constant by law of conservation of charge.

12. ELECTROSTATICS

.. 8 MAHESH TUTORIALS SCIENCE Gravitation 4. The distance of two planets from the sun are 10¹³ m and 10¹² m respectively. Find the ratio of time periods and orbital speeds of the two plants. Given : r₁ = 10¹³ m r₂ = 10¹² m To find : T₁ / T₂ = ? v₁ / v₂ = ? Formula : i) T₁ / T₂ = r₁^{3/2} / r₂^{3/2}

3 1 2 ii) $v_c = GM/r$ Solution : $T^2 \propto r^3$ $T_1^2 / T_2^2 = r_1^3 / r_2^3$ $T_1^2 = (r_1^3 / r_2^3) T_2^2$ $T_1 = (r_1^3 / r_2^3)^{1/2} T_2$

2. GRAVITATION - MT Educare

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.. 88 MAHESH TUTORIALS SCIENCE Magnetic Effect of Electric Current 4. A galvanometer has a resistance of 16Ω and gives a full scale deflection when a current of 20 mA is passed through it. The only shunt resistance available is 0.04Ω which is not appropriate to convert galvanometer into an ammeter. How much resistance should be

14. MAGNETIC EFFECT OF ELECTRIC CURRENT

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Solution : $T = 12$ s, $A = 8$ cm $\omega = 2\pi/T = 2\pi/12 = \pi/6$ rad/s When the particle covers a distance of 6 cm from the positive extremity, its displacement from the mean position is $x = 8 - 6 = 2$ cm From the equation of S.H.M $x = A \cos \omega t$ [from extreme position] $2 = 8 \cos t$ $\cos t = 1/4$

4. OSCILLATIONS

MAHESH TUTORIALS SCIENCE.. 3 Circular Motion Solution : Since, $v^2/L = 5rg$ $T/L = m/5rg + g$ $r = 6mg = 6 \times 0.1 \times 9.8 = 5.88$ N $T = 5.88$ N Since, $v^2/M = 3rg$ $T/M = m/3rg + g$ $r = 3mg = 3 \times 0.1 \times 9.8 = 2.94$ N $T/M = 2.94$ N Since, $v^2/H = rg$ $T/H = m/rg - g$ $r = 0$

1. CIRCULAR MOTION - MT Educare

Solution : $c_a = \lambda \lambda \lambda a c m \lambda \lambda \lambda m = 4560 \cdot 3648 = A I [3.6590] - 3.5620 \cdot 0.0970 = 1.250$ 2. Given : $c_d = 1.25 \times 10^8$ a μm $w = 1.33$ $c_a = 3 \times 10^8$ m/s To Find : $w \mu m$ $d = ?$ Formula : $c_a = a \mu m$ $c_w = w \mu m$ $c_d = d \mu m$ Solution : $c_a = a \mu m$ $c_w = w \mu m$ $c_d = d \mu m$ $w = c_a / a \mu m$ $d = c_w / w \mu m$ $d = (c_w / c_a) \cdot a \mu m$ $d = (3 \times 10^8 / 1.33 \times 10^8) \cdot 1.25 \mu m = A I [\log 3 - \log 1.33] \times 10^8$ $c_w = 0.4771 = A I [-0.1239] \times 10^8$ 0.3532

11. WAVE THEORY OF LIGHT - IX

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