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SCIENCE.. 11

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Gravitation 11. Two bodies of masses 5 kg and 6×10^24 kg are placed with their centers 6.4×10^6 m apart. Calculate the force of attraction between the two masses. Also find the initial acceleration of the two masses [Assume that no other forces act on them.].
Given : $m_1 = 5\text{kg}$, $m_2 = 6 \times 10^24$ kg

2. GRAVITATION -

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SCIENCE.. 89 Magnetic
Effect of Electric

Current Given : $G =$
 1000Ω $R_{eq} = 25$
 Ω To Find : $S = ?$

Formula : $\frac{1}{R_{eq}} = \frac{1}{G}$
 $+ \frac{1}{S}$ Solution : $\frac{1}{R_{eq}}$
 $= \frac{1}{G} + \frac{1}{S}$ $\frac{1}{S} = \frac{1}{R_{eq}} - \frac{1}{G}$

$\frac{1}{S} = \frac{1}{25} - \frac{1}{1000}$
 $\frac{1}{S} = \frac{1000 - 25}{1000 \times 25}$
 $\therefore S = \frac{1000 \times 25}{1000 - 25} =$

25.64Ω

A rectangular coil of

moving coil

14. MAGNETIC EFFECT OF ELECTRIC CURRENT

.. 22 MAHESH

TUTORIALS SCIENCE 9.

A particle executes S.H.M with amplitude of 10 cm and period of 10 s. Find the i) velocity ii) acceleration of the particle at a distance 5 cm from the equilibrium position.

Given : $A = 10 \text{ cm}$, $T =$

10 s To Find : i) $v = ?$

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ii) a at $x = 5 \text{ cm} = ?$

Formula : i) $v = \pm \omega A$

$-x^2$ ii) $a = -\omega^2 x$

Solution :

4. OSCILLATIONS

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SCIENCE.. 69

Electrostatics $E = ()$

$\times \times \times \times \times \times \times 3.14 \times 10$

$4 \times 3.14 \times 8.85 \times 10^{-12}$

$2 \therefore \therefore E = 0.02825$

$\times \times \times \times 10^6 \text{ N/C}$

5. A long cylinder of radius

2 cm carries a charge

of $5 \mu\text{C/m}$ kept in a

medium of dielectric

constant 10^{-12} ? Find the electric field intensity at a point situated at a distance 1 m from the axis of cylinder. Given :

**12. ELECTROSTATICS
- Science Coaching
Classes for Std. XI ...**

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SCIENCE.. 5 Circular
Motion 11. A ball is
released from height h

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along the slope and
move along a circular
track of radius R
without falling
vertically downwards
as shown in the figure.
Show that $h = 5/2 R$
Proof : PE = KE $mgh =$
 $1/2 mv^2$ $B \therefore mgh =$
 $5/2 mgR$ $V = 5Rg$ $V =$
 $5Rg$ B^2/B Hence
according to law of
conservation

**1. CIRCULAR
MOTION - MT
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.. 122 MAHESH
TUTORIALS SCIENCE

$\lambda_w = 6000 \text{ \AA}$
 $\lambda_w = 6000 \times \frac{4}{3} = 8000 \text{ \AA}$

‘f’ remains same,

i.e. $f_a = f_w = 5 \times 10^{14} \text{ Hz}$

Given : $\lambda_a = 5000 \text{ \AA}$

$\lambda_a = 5000 \times 10^{-10} \text{ m}$

$\mu_w = \frac{4}{3}$

$n_a = 6 \times 10^{14} \text{ Hz}$

To Find : $\lambda_w = ?$

$n_w = ?$ Formula : $\mu_w \lambda_w = \lambda_a$

$\lambda_w = \frac{\lambda_a}{\mu_w} = \frac{5000 \text{ \AA}}{\frac{4}{3}} = 3750 \text{ \AA}$

Solution : When a

ray of light ...

11. WAVE THEORY

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OF LIGHT - IX

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SCIENCE.. 63

Interference and
Diffraction 9.

Diffraction pattern of single slit of width 0.5 cm is formed by a lens of focal length 40 cm.

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Calculate the distance between the first dark and the next bright fringe from the axis. Wavelength of light used is 4890 \AA .

Given : $d = 0.5 \text{ cm} = 5 \times 10^{-3} \text{ m}$ $f = D = 0.4 \text{ m}$ $\lambda = 4890 \text{ \AA}$.

11. INTERFERENCE AND DIFFRACTION - MT Educare

.. 100 MAHESH TUTORIALS SCIENCE
Electrons and Photons
7. When a surface is

irradiated with light of wavelength 4950 \AA , a photocurrent appears which vanishes if a retarding potential greater than 0.6 V is applied across the phototube. When a different source of light is used, it is found that the critical retarding potential is changed to 1.1 V ...

17. ELECTRONS AND PHOTONS - IX

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