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NEET PHYSICS
PAPER
SOLUTION
2025

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I am a Physics educator for NEET with around 30 years of teaching experience. I teach students preparing for NEET Physics with full dedication, helping them clear concepts thoroughly from the basic to the advanced level, without any hurdles.

Having taught Physics for decades, I've observed the changes in the NEET Physics paper (earlier known as AIPMT) over the years. The difficulty level of the NEET Physics section fluctuates—sometimes it's easy, sometimes quite challenging, as seen in the NEET 2025 paper.

One major concern today is the interference from parents, especially those from corporate backgrounds. They often impose their corporate culture on their child's education, assuming that just cutting down chapters into PDFs or making PowerPoint presentations is enough for preparation. But Physics doesn't work like that. It's not about shortcuts—it's about building strong fundamentals, particularly in mathematical tools, which are essential and were clearly tested in NEET 2025.

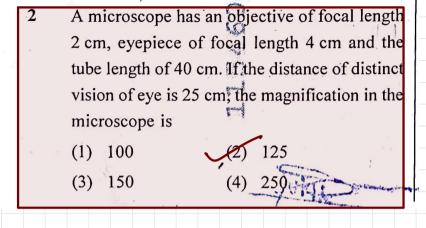
With around 24 lakh students appearing for NEET and only about 50,000 seats in government colleges, the competition is extremely tough. To secure a seat in top colleges like AIIMS or MAMC, a student must be thorough in every aspect of the subject.

My sincere advice to students: practice Physics rigorously using H.C. Verma and Irodov. These are time-tested books that build real conceptual strength. Follow conventional methods—just like your parents did when they prepared for competitive exams—instead of getting distracted by random YouTube videos or so-called "influencers" misusing AI to teach Physics in shallow ways. These approaches often harm the student's ability to think deeply and critically, which is crucial for success.

Consider a water tank shown in the figure. It has one wall at  $x^{\square} L$  and can be taken to be very wide in the z direction. When filled with a liquid of surface tension S and density o, the liquid surface makes angle  $\theta_0(\theta_0 \ll 1)$  with the x-axis at x = L. If v(x) is the height of the surface then the equation for v(x) is: x = L(take  $\theta(x) = \sin \theta(x) = \frac{\xi^{\tau} \cdot \xi}{\frac{1}{2} \tan \theta(x)} = \frac{dy}{t}$ , g is the acceleration due to gravity) (1)  $\frac{d^2y}{dx^2} = \frac{\rho g}{S}x$  (2)  $\frac{2y}{dx^2}$ (3)  $\frac{d^2y}{dx^2} = \sqrt{\frac{\rho g}{S}} \qquad (4) \quad \frac{dy}{dx} = \sqrt{\frac{\rho g}{S}}x$ 

The Young Laplace equation relater the curvature of a surface to the pressure deffere actoic the surface dul to surface ten sion For a surface described by the function & (x) the curvature & can be of proximately by second derivative (for quil

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An electron (mass  $9 \times 10^{-31}$  kg and charge 1.6×10<sup>-19</sup>C) moving with speed c/100 (c = speed of light) is injected into a magnetic field  $\vec{B}$  of magnitude  $9 \times 10^{-4}$  T perpendicular to its direction of motion. We wish to apply an uniform electric field E together with the magnetic field so that the electron does not deflect from its path. Then (speed of light  $c = 3 \times 10^8 \text{ ms}^{-1}$ (1)  $\stackrel{\rightarrow}{E}$  is perpendicular to  $\stackrel{\rightarrow}{B}$  and its magnitude is 27×10<sup>4</sup> V m<sup>-1</sup>  $\overrightarrow{E}$  is perpendicular to  $\overrightarrow{B}$  and its magnitude is 27×10<sup>2</sup> V m<sup>-1</sup> (3)  $\overrightarrow{E}$  is parallel to  $\overrightarrow{B}$  and its magnitude is 27×10<sup>2</sup> V m<sup>-1</sup> 13 131 (4) E is parallel to B and its magnitude is 27×10<sup>4</sup> V m<sup>-1</sup>

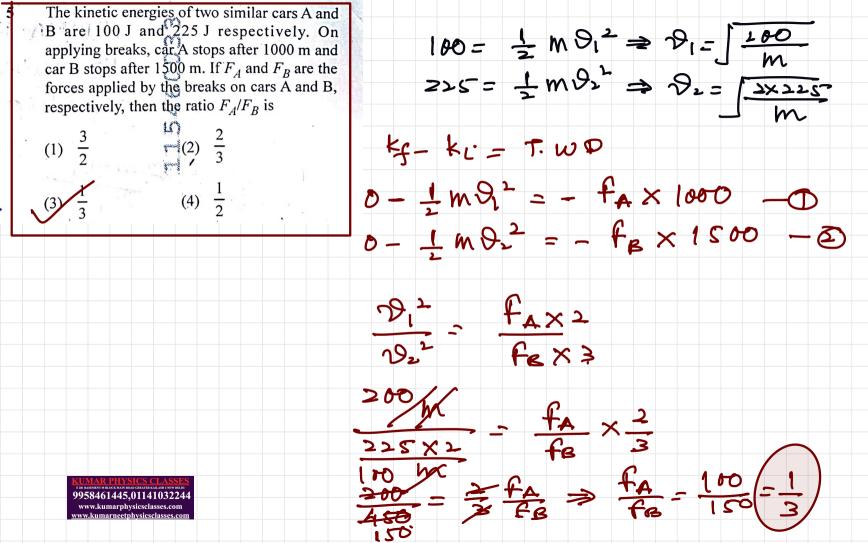
$$998-9E$$

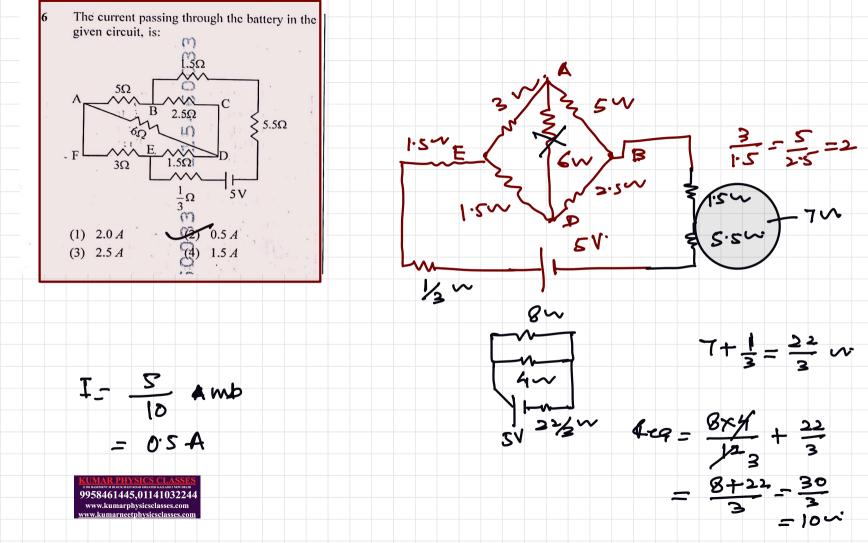
$$E = 98 = (3 \times 10^{8}) \times 9 \times 10^{-4}$$

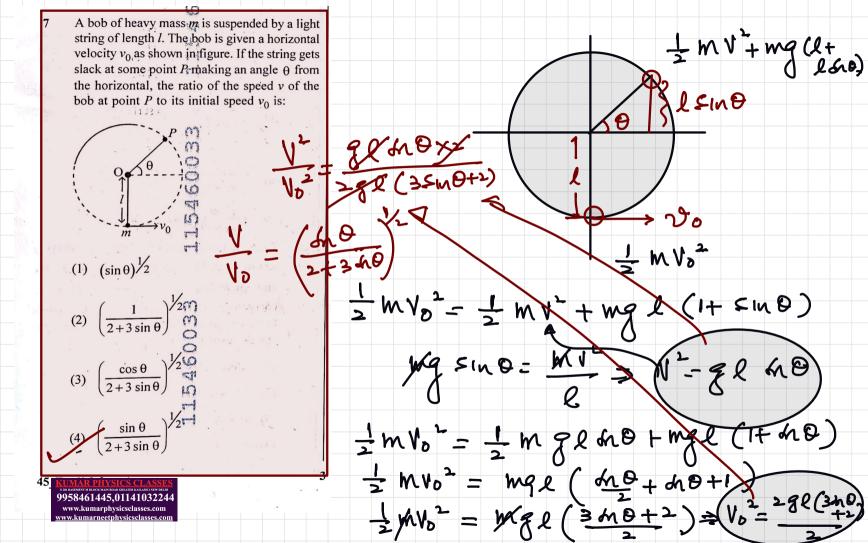
 $\frac{3\times 9}{10^2}\times 10^4$ 

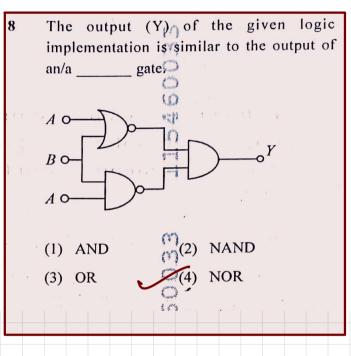
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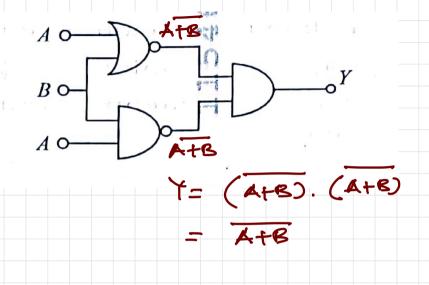
There are two inclined surfaces of equal length mg mo= ma, (L) and same angle of inclination 45° with the a - 9m0 horizontal. One of them is rough and the other L = 1 (840) (12 mana) is perfectly smooth. A given body takes 2 times as much time to slide down on rough surface than on the smooth surface. The coefficient of kinetic friction (µ) between the object and the rough surface is close to  $h0-limga0=ma_2$ (1) 0.25(2) 0.40 Q\_ = 9 40 - M9 650 (3) 0.5 (4) 0.75 gno-ngcoo 1, - 261 ( 5x6 - 4 cy6) = 5x6 9=450 4 (1-4)-1 1-11-14-3 9958461445.01141032244





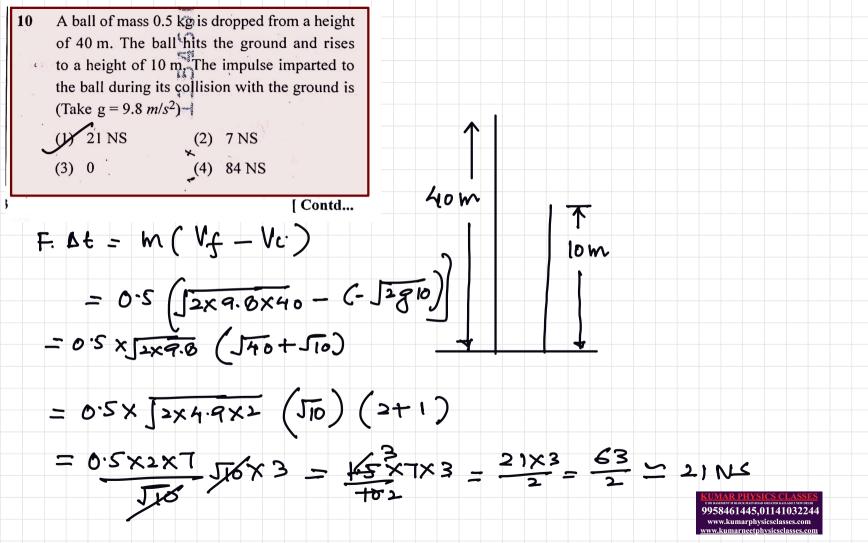




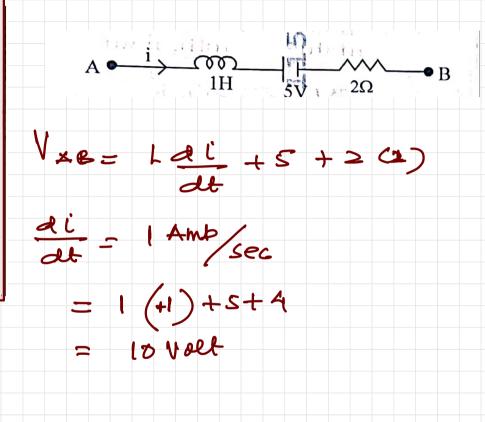


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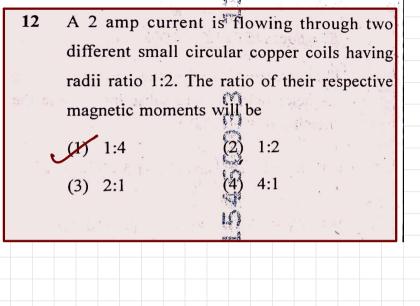
The electric field in a plane electromagnetic wave is given by  $E_{-} = 60\cos(5x + 1.5 \times 10^{9} t)V/m$ . Then expression for the corresponding magnetic field is (here subscripts denote the direction of the field): (1)  $B_y = 2 \times 10^{-7} \cos (5x + 1.5 \times 10^9 t)T$ (2)  $B_x = 2 \times 10^{-7} \cos (5x + 1.5 \times 10^9 t)T$ = 3×100 = 20 × 10 8 fecta = 2× 10 fecta (3)  $B_z = 60\cos(5x^2 + 1.5 \times 10^9 t)T$ (4)  $B_v = 60\sin(5x + 1.5 \times 10^9 t)T$ By = 2x 10 200 (5x + 1.5 × 109+) 7 9958461445.01141032244

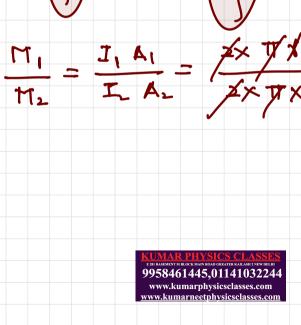


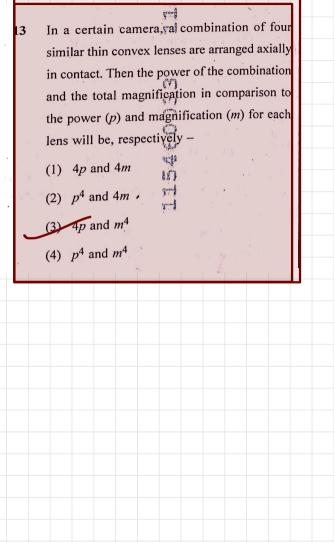
AB is a part of an electrical circuit (see figure). The potential difference " $V_A - V_B$ ", at the instant when current i 2 A and is increasing at a rate of 1 amp / second is: (1) 5 volt (2) 6 volt (3) 9 volt. (4) 10 volt



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P= P1 + P2 + P3 + P9 M- M, M2 M3 M4 9958461445,01141032244

An oxygen cylinder of volume 30 litre has 18.20 moles of oxygen. After some oxygen is withdrawn from the cylinder, its gauge pressure drops to 11 atmospheric pressure at temperature 27°C. The mass of the oxygen withdrawn from the cylinder is nearly equal to: [Given,  $R = \frac{100}{12} J mol^{-1} K^{-1}$ , and molecular mass of  $O_2 = 32$ , 1 atm pressure =  $1\sqrt{9}1 \times 10^5 N/m$ ] (1) 0.125 kg (2) 0.144 kg (3) 0.116 kg (4) 0.156 kg

$$\mathfrak{A} = \frac{PV}{RP} = \frac{11 \times 1.01 \times 10^{5} \times 30 \times 10^{3}}{12}$$

$$\Delta n = \mathfrak{A} : -\mathfrak{A} :$$

Mi = 18-20 moles

In some appropriate units, time (t) and position (x) relation of a moving particle is given by 
$$t = x^2 + x$$
. The acceleration of the particle is

(1)  $-\frac{2}{(x+2)^3}$  (2)  $\frac{2}{(2x+1)^3}$ 

(3)  $+\frac{2}{(x+1)^3}$  (4)  $+\frac{2}{2x+1}$ 
 $x^2 = t - x$ 

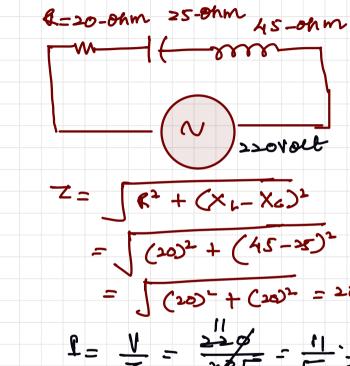
the is
$$\frac{dz}{dx} = 2z + 1$$

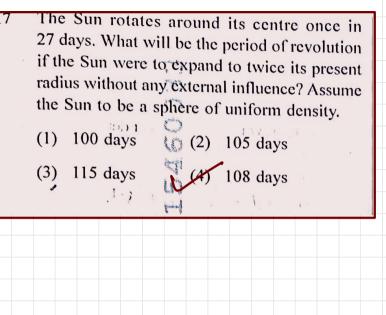
$$\frac{dx}{dx} = 9 = \frac{1}{(2x+1)}$$

$$A = \frac{dy}{dt} = \frac{d}{(2x+1)} = \frac{1}{(2x+1)} = \frac{1}{(2x+1)^2} = \frac{1}{(2x+1)^2} = \frac{1}{(2x+1)^3}$$

$$= -\frac{1}{(2x+1)^2} = \frac{1}{(2x+1)^3}$$

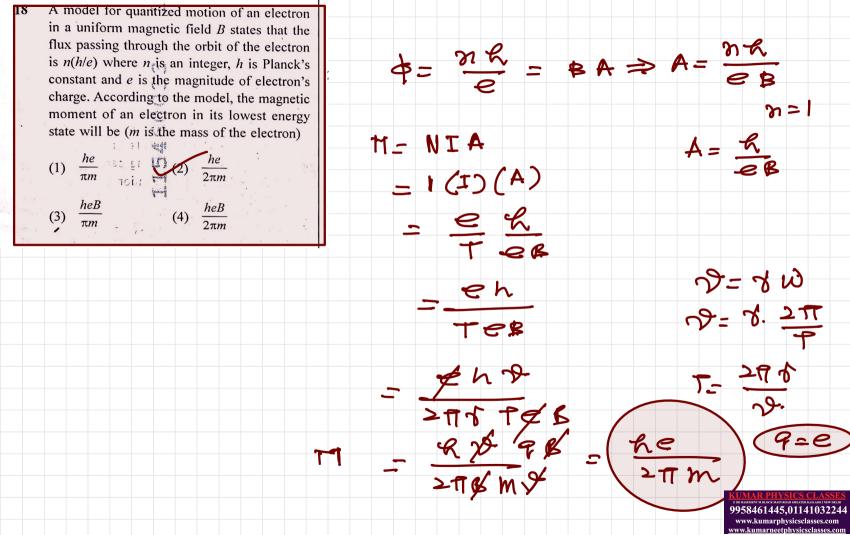
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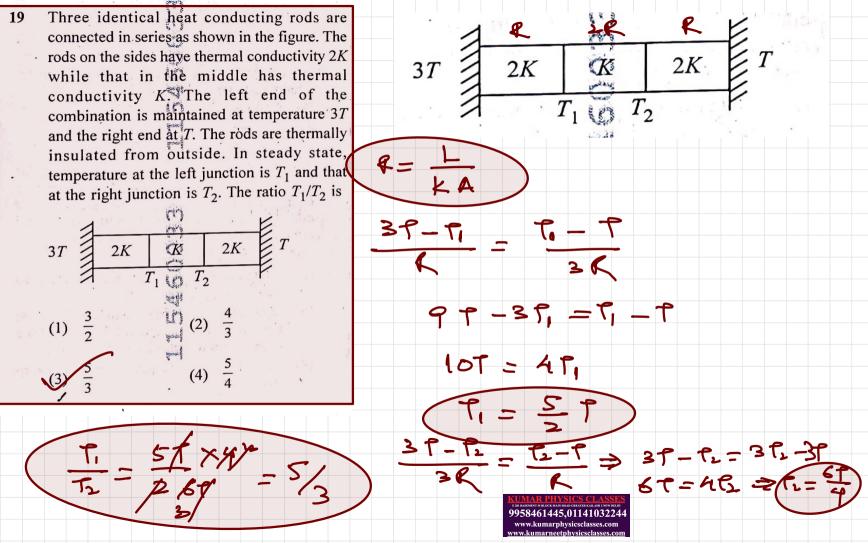


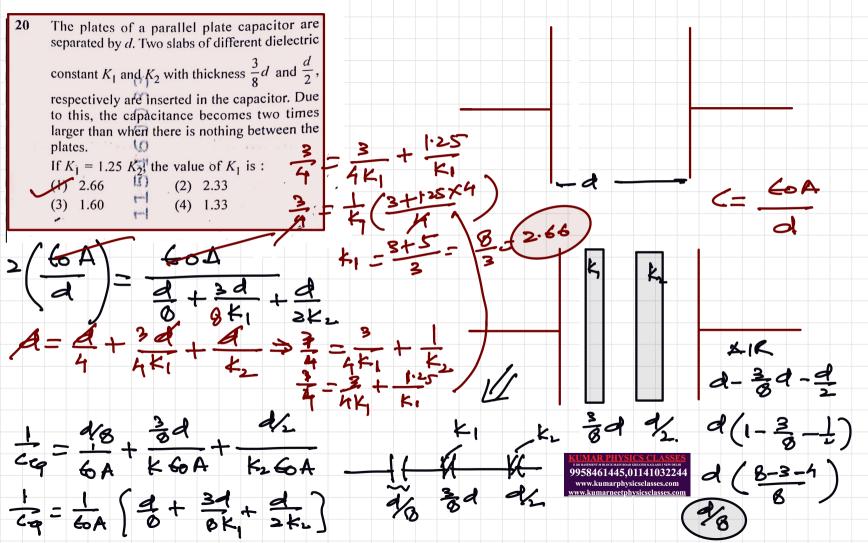


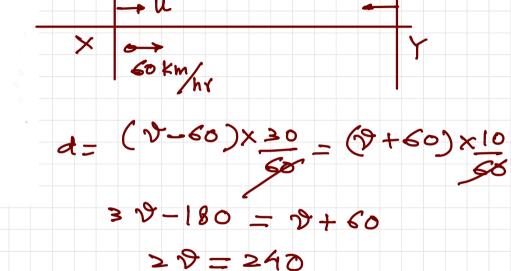
72 = 7, ×4 = 27×4 = 108 do

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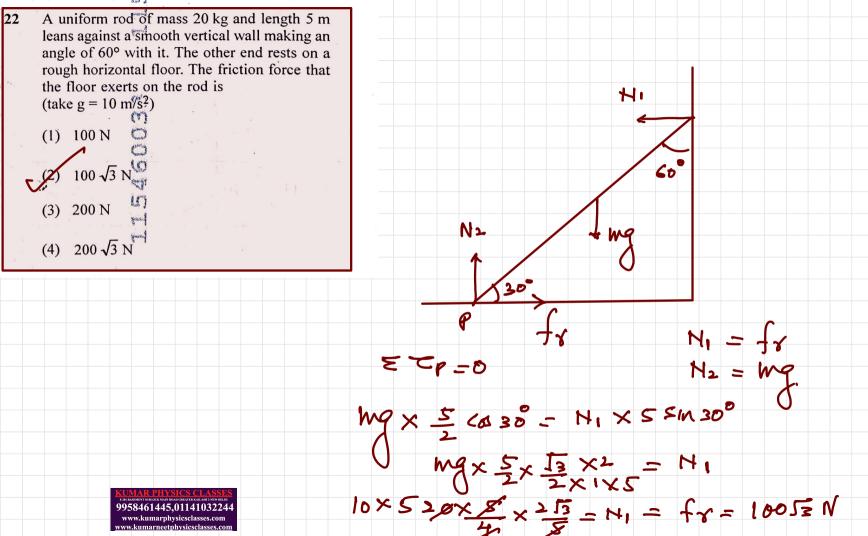


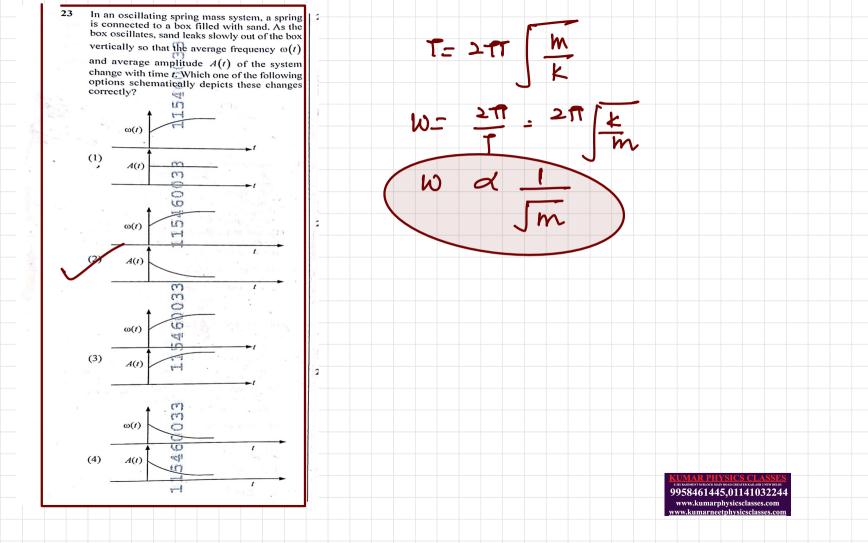




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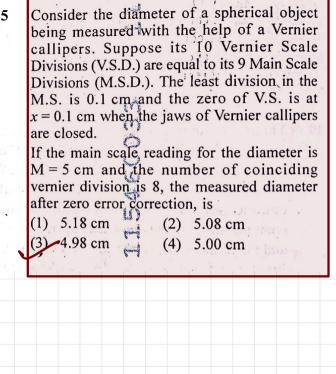
 $20 = \frac{30}{20} = \frac{(120 - 60)}{60} = \frac{60}{60} \times 30 = 30$ 

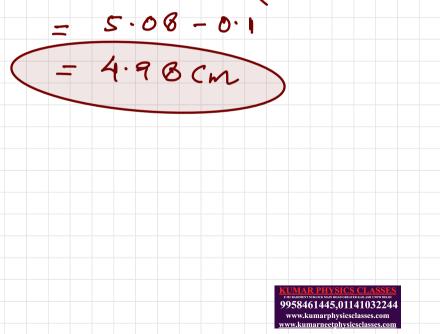




A balloon is made of a material of surface tension S and its inflation outlet (from where T = K S A A B S 8 R 8 gas is filled in it) has small area A. It is filled with a gas of density p and takes a spherical shape of radius R. When the gas is allowed to r= + (m+2) (L2) (M23) 8 (L) 8. flow freely out of it, its radius r changes from R to 0 (zero) in time T. If the speed v(r) of gas coming out of the balloon depends on r as ra and  $T \propto S^{\alpha} A^{\beta} \rho^{\gamma} R^{\delta}$  then. MOLOP'-K MX+8 128-38+0 7-206 (1)  $a = \frac{1}{2}, \alpha = \frac{11}{2}, \beta = -1, \gamma = +1, \delta = \frac{3}{2}$ (2)  $a = -\frac{1}{2}, \alpha = -\frac{1}{2}, \beta = -1, \gamma = -\frac{1}{2}, \delta = \frac{5}{2}$ 2 B- 38+8-0 d+ 7=0 (3)  $a = -\frac{1}{2}, \alpha = -\frac{1}{2}, \beta = -1, \gamma = \frac{1}{2}, \delta = \frac{7}{2}$ -2 d=1 => (d=-/ (4)  $a = \frac{1}{2}, \alpha = \frac{1}{2}, \beta = -\frac{1}{2}, \gamma = \frac{1}{2}, \delta = \frac{7}{2}$ 

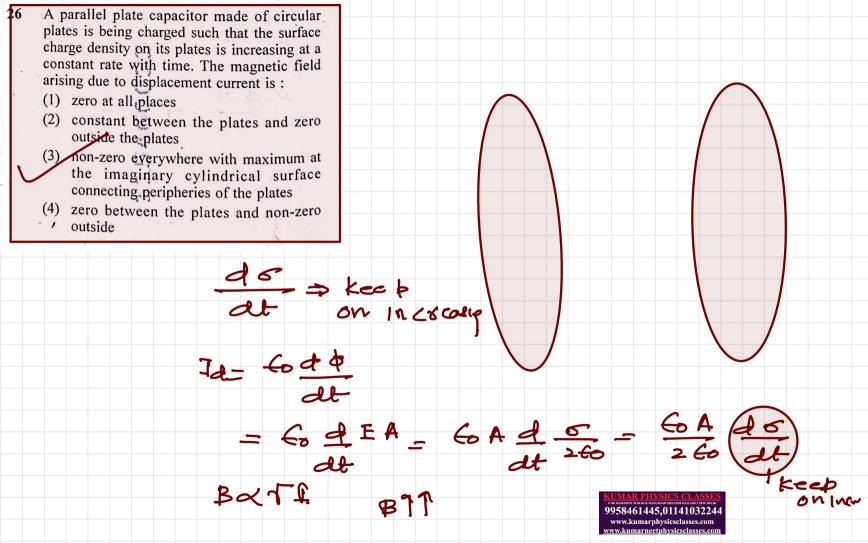
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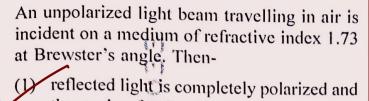




Reading - MIR +n (LG) - ZERO esrol

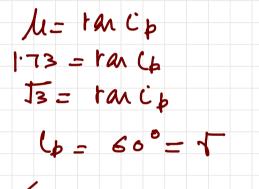
 $=5(m+8\left(\frac{0.1}{10}\right)$ 





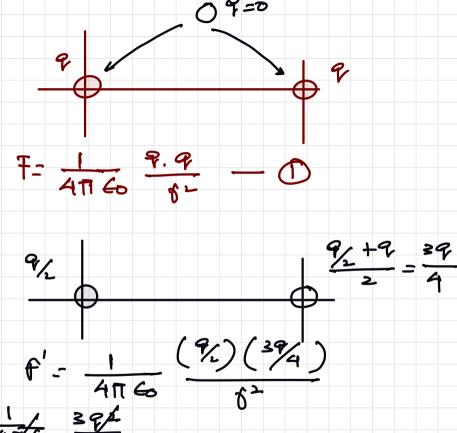
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- the angle of reflection is close to 60°
- (2) reflected light is partially polarized and the angle of reflection is close to 30°
- (3) both reflected and transmitted light are perfectly polarized with angles of reflection and refraction close to 60° and 30°, respectively.
- (4) transmitted light is completely polarized with angle of refraction close to 30°





Two identical charged conducting spheres 28 A and B have their centres separated by a certain distance. Charge on each sphere is q and the force of repulsion between them is F. A third identical uncharged conducting sphere is brought in contact with sphere A first and then with B and finally removed from both. New force of repulsion between spheres A and B (Radii of A and B are negligible compared to the distance of separation so that for calculating force between them they can be considered as point charges) is best given as:



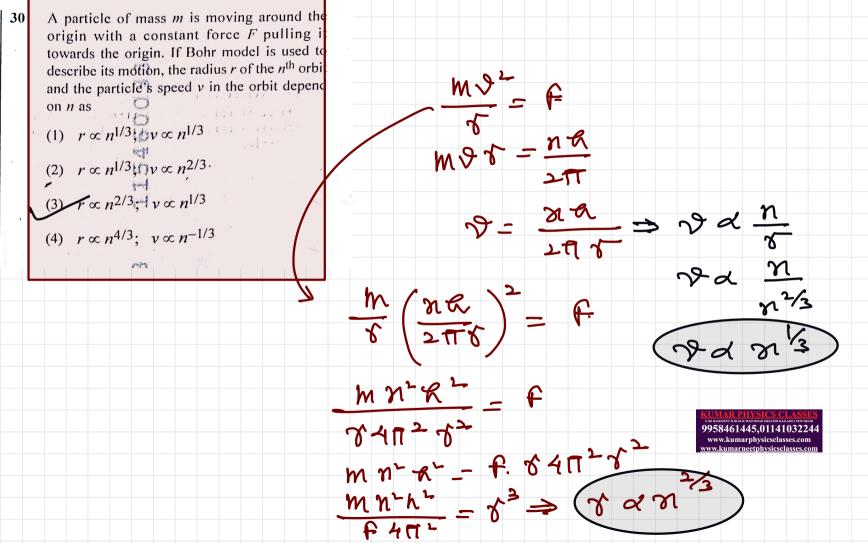
A container has two chambers of volumes 
$$V_1 = 2$$
 litres and  $V_2 = 3$  litres separated by a partition made of a thermal insulator. The chambers contains  $n_1 = 5$  and  $n_2 = 4$  moles of ideal gas at pressures  $p_1 = 1$  atm and  $p_2 = 2$  atm, respectively. When the partition is removed, the mixture attains an equilibrium pressure of:

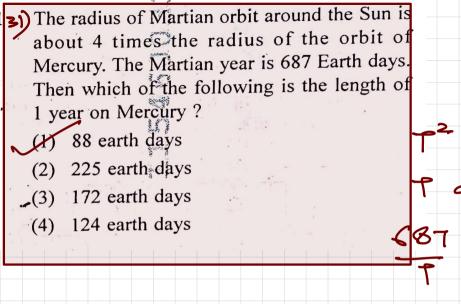
(1) 1.3 atm

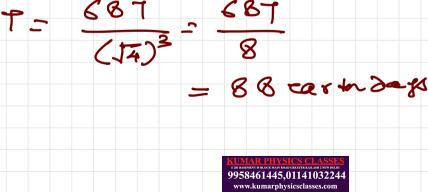
(2) 1.6 atm

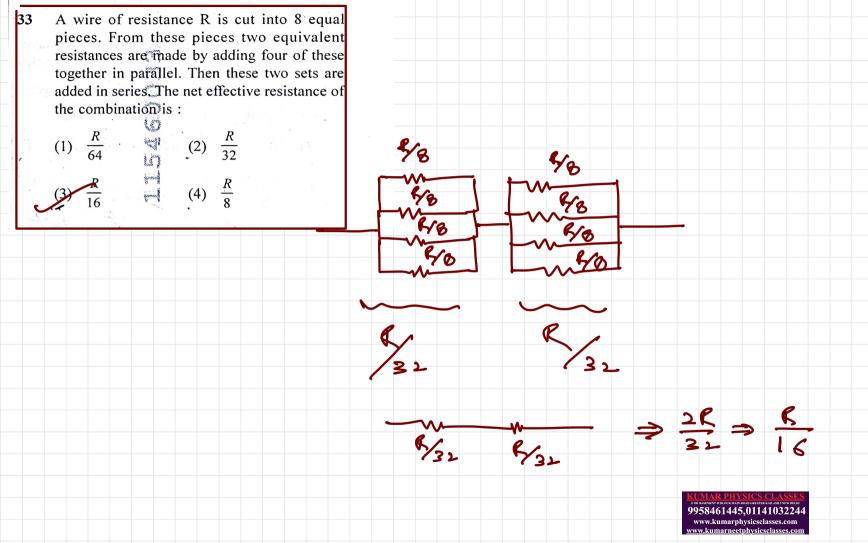
(3) 1.4 atm

8.1. + 8.1. = 8mix Vmix 1(2) + 2(3) = 8mix (5)  $8mix = \frac{8}{5} = 1.6 atm$ 







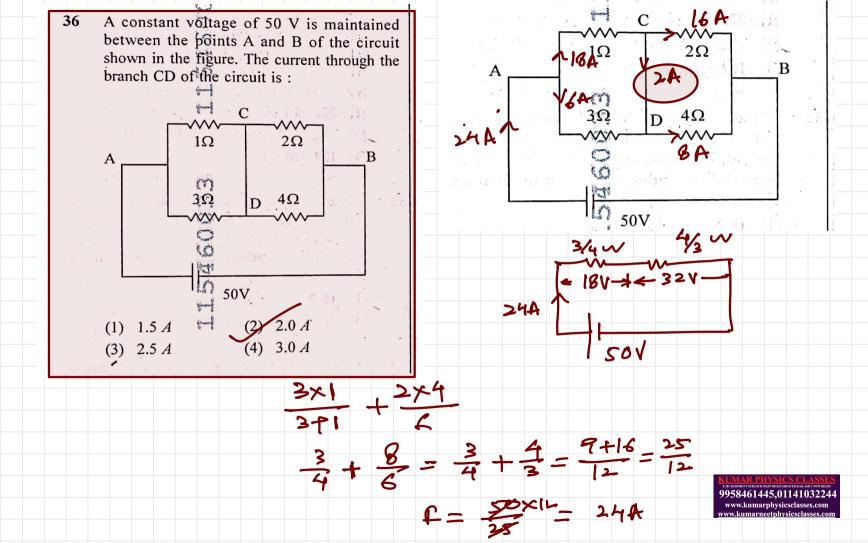


De-Broglie wavelength of an electron orbiting in the n = 2 state of hydrogen atom is close to (Given Bohr radius = 0.052 nm) (3) 1.67 nm (2) 0.67 nm(4) 2.67 *nm* Me= 9.1 × 10=21 R= 6.6 × 10 34 JI 7 - 0.052 nm 716 80 - 0.052×4 2月かニガン  $x = \frac{6.6 \times 10^{34} \times 137}{9 \times 10^{31} \times 2 \times 10^{8}} = 0.67 \text{ nm}$ 9958461445.01141032244

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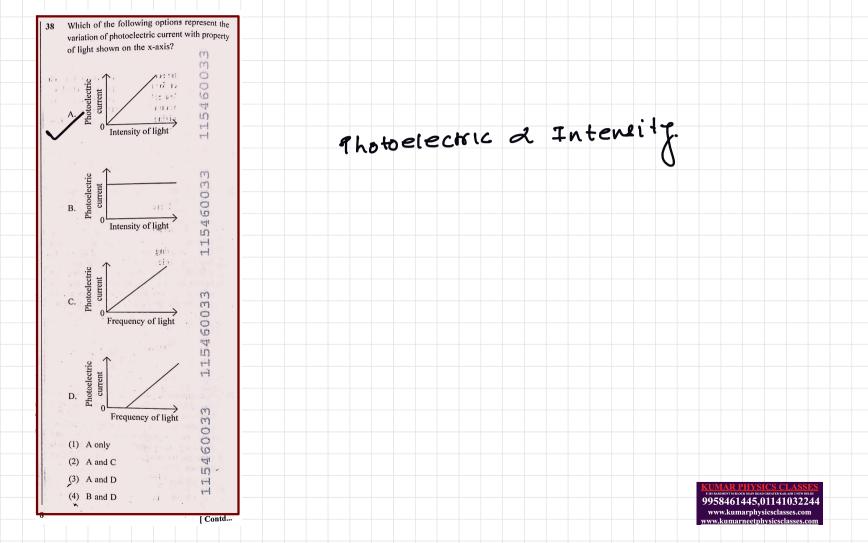
uniform electric field of magnitude  $4 \times 10^5$  N/C. The dipole is then rotated three an angle of 60% with reconfield. The cl dipole is: (1) 0.8 J (3) 1.2 J DV = Uf - VC = - PE COS GO + PE COS GO  $= \frac{PE}{2} + PE = \frac{PE}{2}$   $= \frac{5 \times 166 \times 4 \times 10^{5}}{2} = \frac{20 \times 10^{1}}{2} = 15$ 

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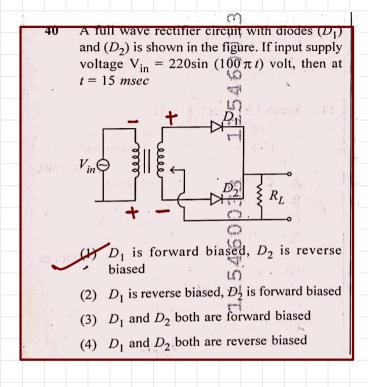


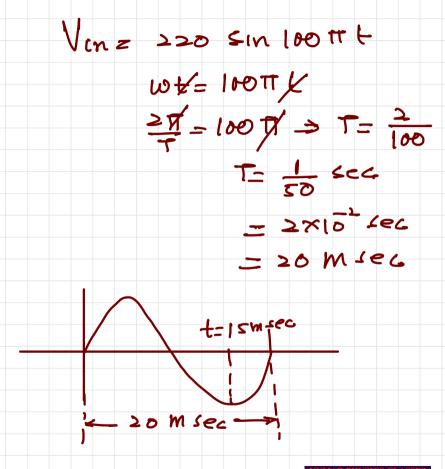
the same venergy E. The ratio  $(\lambda_{\text{photon}}/\lambda_{\text{electron}})$  of their de Broglie wavelengths is (c) is the speed of light) 9958461445.01141032244 www.kumarphysicsclasses.com

A photon and an electron (mass m) have



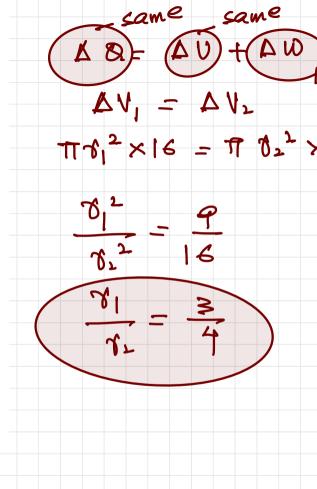
A sphere of radius R is cut from a larger solid sphere of radius 2R as shown in the figure. The ratio of the moment of inertia of the smaller Ismaller = = M'R2 + M'R2 = IM'R2 sphere to that of the rest part of the sphere about the Y-axis is: = M(2R) - 7 M'R" Ismaller IR GET (1) 9958461445,01141032244 www.kumarphysicsclasses.com







Two gases A and B are filled at the same pressure in separate cylinders with movable pistons of radius  $r_A$  and  $r_B$ , respectively. On supplying an equal amount of heat to both the systems reversibly under constant pressure, the pistons of gas A and B are displaced by 16 cm and 9 cm, respectively. If the change in their internal energy is the same, then the ratio  $r_A/r_R$  is equal to





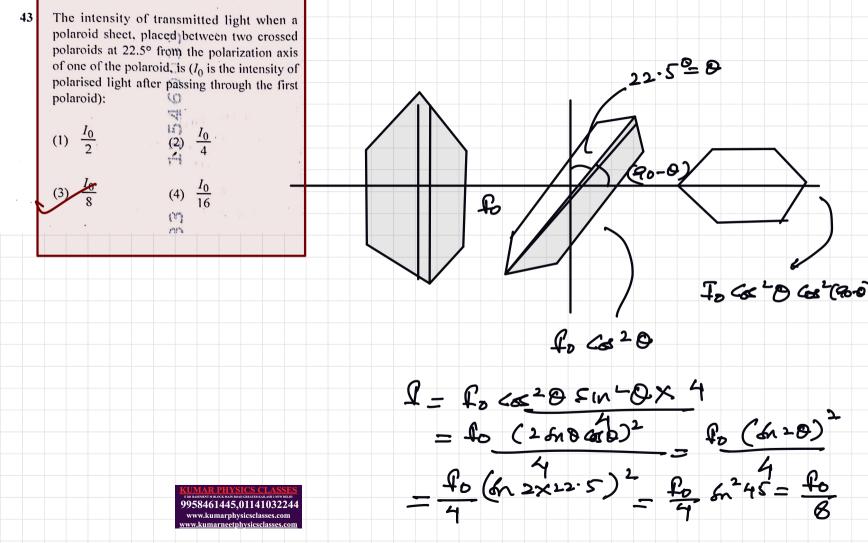
A physical quantity 
$$P^{1}$$
 is related to four observations  $a$ ,  $b$ ,  $c$  and  $d$  as follows:

$$P = a^{3}b^{2}/c\sqrt{d}$$

The percentage errors of measurement in  $a$ ,  $b$ ,  $c$  and  $d$  are 1%, 3%, 2%, and 4% respectively. The percentage error in the quantity  $P$  is

(1) 10%
(2)  $\frac{1}{2}$ %
(3)  $\frac{1}{3}$ %
(4) 15%

+ A < ×100 + 1 Ad ×100 3+6+2+2



Two identical point masses P and Q, suspended from two separate massless springs of spring constants  $k_1$  and  $k_2$ , respectively, oscillate vertically. If their maximum speeds are the same, the ratio  $(A_O/A_P)$  of the amplitude  $A_O$ of mass Q to the amplitude  $A_P$  of mass P is:

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K=MW

