## KUMAR PHYSICS CLASSES

E 281 BASEMENT M BLOCK MAIN ROAD GREATER KAILASH 2 NEW DELHI

9958461445,01141032244

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IIT JEE PHYSICS PAPER
SOLUTION
28 JUNE 2022
EVENING SHIFT

QUESTIONS BASED ON

UNIT AND DIMENSION,
LADDER PROBLEM, YDSE, RADIOACTIVITY
, DIODE FILTER CIRCUIT WAVEFORM &
ZENER DIODE ARE TRICKY

Q1: Velocity (v) and acceleration (a) in two system of units 1 and 2 are related as  $v_2 = \frac{n}{m^2} v_1$ and  $a_2 = \frac{a_1}{mn}$  respectively. Here m and n are constant. The relations for distance and time in

two systems respectively are:

$$(\Delta)$$
  $n^3$   $I$   $I$   $n^2$   $I$   $I$ 

(A) 
$$rac{n^3}{m^3}L_1=L_2$$
 and  $rac{n^2}{m}T_1=T_2$ 

(B) 
$$L_1=rac{n^4}{m^2}L_2$$
and  $T_1=rac{n^2}{m}T_2$ 

(C) 
$$L_1=rac{n^2}{m}L_2$$
 and  $T_1=rac{n^4}{m^2}T_2$ 

(D) 
$$rac{n^2}{m}L_1=L_2$$
 and  $rac{n^4}{m^2}T_1=T_2$ 

$$Q = \frac{\mathcal{D}^2}{\mathcal{T}} \Rightarrow \mathcal{E} = \frac{\mathcal{D}^2}{\mathcal{A}} = L$$

$$\frac{\mathfrak{D}_1^2}{a_1} = L_1 + \frac{\mathfrak{D}_2}{a_1}$$

$$\frac{\mathcal{V}_{1}}{\mathcal{V}_{1}^{2}} \times \frac{\mathcal{A}_{1}}{\mathcal{A}_{1}} = \frac{\mathcal{L}_{1}}{\mathcal{L}_{2}}$$

$$\frac{\mathcal{V}_{1}}{\mathcal{N}_{1}} \times \left(\frac{1}{Mn}\right) = \frac{\mathcal{L}_{1}}{\mathcal{L}_{2}}$$

$$\left(\frac{m^2}{n}\right)\left(\frac{1}{mn}\right)\left(\frac{m}{n^2}\right)$$

$$\frac{1}{2}$$
 ×  $\frac{1}{mn} = \frac{L_1}{L_2}$ 

Q2: A ball is spun with angular acceleration  $\alpha=6t^2-2t$ where t is in second and  $\alpha$  is in  $rads^{-2}$  at t=0, the ball has angular velocity of  $10rads^{-1}$  and angular position of 4 rad. The most appropriate expression for the angular position of the ball is:

(A) 
$$\frac{3}{2}t^4 - t^2 + 10t$$

(B) 
$$\frac{t^4}{2}-\frac{t^3}{3}+10t+4$$

(C) 
$$\frac{2t^4}{3} - \frac{t^3}{6} + 10t + 12$$

(D) 
$$2t^4 - rac{t^3}{2} + 5t + 4$$

$$dw = (6t^2 - 2t)at$$

$$w = 2t^{2} - t^{2} + 10$$

$$|0t+4| \frac{d\theta}{dt} = 2t^2 - t^2 + 10$$

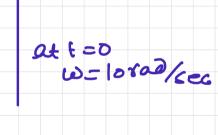
$$|0t+4| \frac{d\theta}{dt} = 2t^2 - t^2 + 10$$

$$|0t+4| \frac{d\theta}{dt} = 2t^3 - t^2 + 10$$

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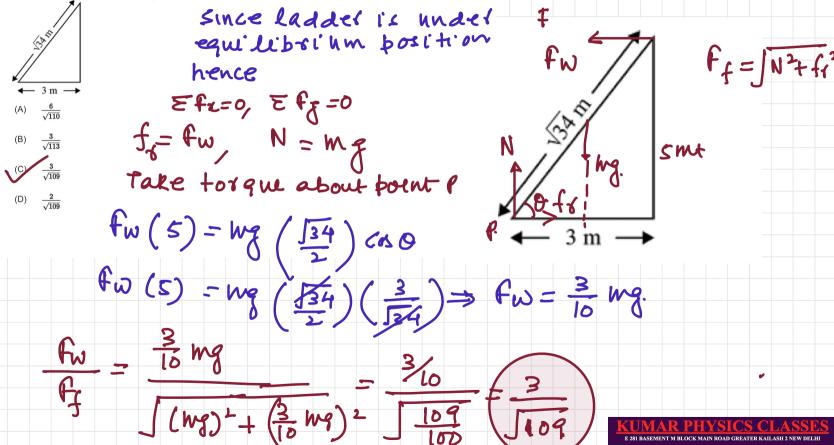
at t=0 w=108aa/secSconditm 8=48ad

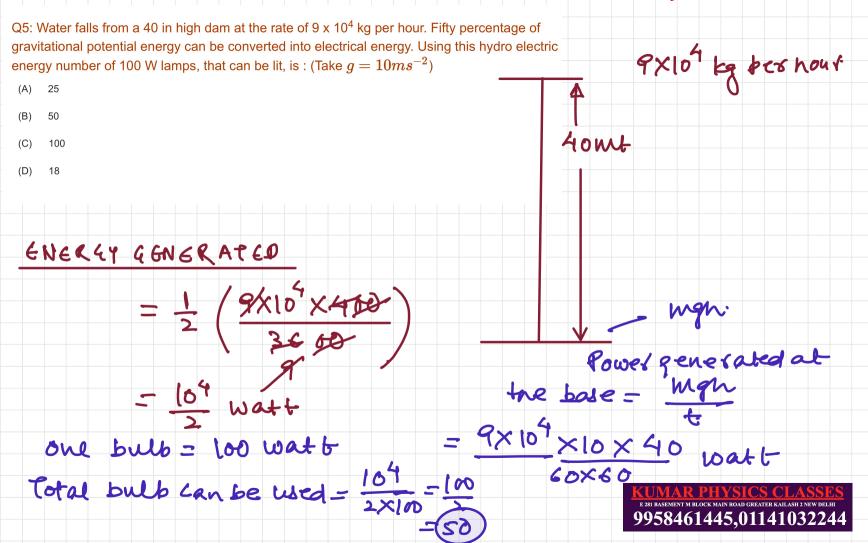


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Q3: A block of mass 2 kg moving on a horizontal surface with speed of  $4ms^{-1}$  enters a rough surface ranging from x = 0.5 m to x = 1.5 in. The retarding force in this range of rough surface is related to distance by F=-kx where  $k=12Nm^{-1}$  . The speed of the block as it just crosses the rough surface will be: Zero  $1.5 m s^{-1}$  $\text{(C)} \quad 2.0ms^{-1}$ (D)  $2.5ms^{-1}$ Z=1.5 ml  $\frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)^{2} - \left( \frac{1}{2} \right)^$  $=\frac{-k}{2}(2)(1.0)=\frac{1}{2}mV^{2}-\frac{1}{2}m(4)^{2}$ V=2ms 9958461445,01141032244 Q4: A  $\sqrt{34}m$ long ladder weighting 10 kg leans on a frictionless wall. Its feet rest on the floor 3m away from the wall as shown in the figure. If  $F_f$  and  $F_w$  are the reaction forces of the floor and the wall< then ratio of  $\frac{F_w}{F_f}$  will be:





Q6: Two objects of equal masses placed at certain distance from each other attracts each other with a force of F. If one-third mass of one object is transferred to the other object, then the new force will be

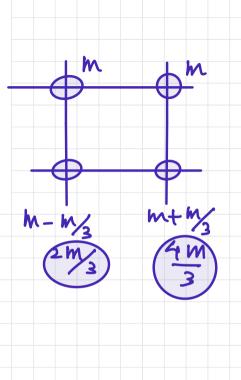
- (A)  $\frac{2}{9}F$
- (B)  $\frac{16}{9}F$
- $\frac{8}{9}F$
- (D) I



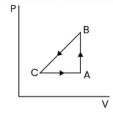
Hew force

$$2' = 4\left(\frac{2M}{3}\right)\left(\frac{4N}{3}\right)$$





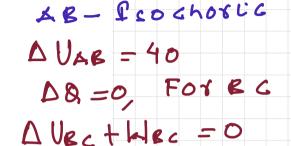
Q7: A water drop of radius  $1 \mu m$  falls in a situation where the effect of buoyant force is negligible. Co-efficient of viscosity of air is  $1.8 \times 10^{-5} Nsm^2$  and its density is negligible as compared to that of water  $10^6 gm^{-3}$ . Terminal velocity of the water drop is: (Take acceleration due to gravity =  $10ms^{-2}$ )  $145.4 imes 10^{-6} ms^{-1}$ Wg - fv - fv = 0 $118.0 imes 10^{-6} ms^{-1}$  $132.6 imes 10^{-6} ms^{-1}$ (D)  $123.4 imes 10^{-6} ms^{-1}$ (1×10 6)2 × 10 × 10 <u>9958461445,01141032244</u> Q8: A sample of an ideal gas is taken through the cyclic process ABCA as shown in figure. It absorbs, 40 J of heat during the part AB, no heat during BC and rejects 60 J of heat during CA. A work of 50 J is done on the gas during the part BC. The internal energy of the gas at A is 1560 J. The work done by the gas during the part CA is:



(A) 20 J

(C) -30 J

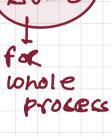
(D) -60 J



AVec = 50

1 VCA + WCA = - 60

HCA=30J)



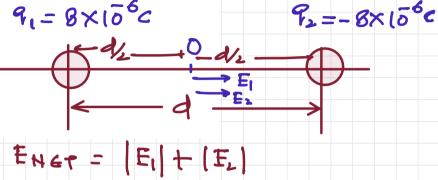
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Q9: What will be the effect on the root mean square velocity of oxygen molecules if the temperature is doubled and oxygen molecule dissociates into atomic oxygen?

- (A) The velocity of atomic oxygen remains same
- (B) The velocity of atomic oxygen doubles
- (C) The velocity of atomic oxygen becomes half
- (D) The velocity of atomic oxygen becomes four times

$$10^{1} - \frac{3R(2T)}{(M/2)} = 2\frac{3LT}{M} - 2V$$

Q10: Two point charges A and B of magnitude  $+8\times10^{-6}C$  and  $-8\times10^{-6}C$  respectively are placed at a distance d apart. The electric field at the middle point 0 between the charges is  $6.4\times10^4NC^{-1}$ . The distance od' between the point charges A and B is:



$$= \left(\frac{1}{4\pi60} \frac{94}{42}\right) \times 2 - 8\left(\frac{1}{4\pi60}\right) \frac{9}{42}$$

$$6.4 \times 10^{4} - 8 \times 9 \times 10^{9} \times 9$$

$$d=2 \text{ mt}$$
  $a^2 = \frac{72 \times 10^9 \times 8 \times 10^6}{6.4 \times 10^4}$ 

Q11: Resistance of the wire is measured as  $2\Omega$  and  $3\Omega$  at 10°C and 30°C respectively.

Temperature co-efficient of resistance of the material of the wire is:

(A) 
$$0.033^{\circ}C^{-1}$$

- (B)  $-0.033^{\circ}C^{-1}$
- (C)  $0.011^{\circ}C^{-1}$
- (D)  $0.055^{\circ}C^{-1}$

$$\frac{2}{3} = \frac{1+10d}{1+20d}$$

$$q = \frac{30}{20} = .033 \frac{2}{2}$$

Q12: The space inside a straight current carrying solenoid is filled with a magnetic material having magnetic susceptibility equal to  $1.2 \times 10^{-5}$ . What is fractional increase in the magnetic field inside solenoid with respect to air as medium inside the solenoid?

- (A)  $1.2 \times 10^{-5}$
- (B)  $1.2 \times 10^{-3}$
- (C)  $1.8 \times 10^{-3}$
- (D)  $2.4 \times 10^{-5}$

$$X = 1.2 \times 10^{5}$$

$$L_{1} = X + 1$$

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1.2×10+1-1

Q13: Two parallel, long wires are kept 0.20 m apart in vacuum, each carrying current of x A in the same direction. If the force of attraction per meter of each wire is  $2 \times 10^{-6} N$ , then the value of x is approximately: (A) 1 2.4 (D) 2

= 1.4Amb

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Q14: A coil is placed in a time varying magnetic field. if the number of turns in the coil were to be halved and the radius of wire doubled, the electrical power dissipated due to the current induced in the coil would be: (Assume the coil to be short circuited.) Halved (A) Quadrupled The same Doubled R - Coverant 9958461445,01141032244

Q15: An EM wave propagating in x-direction has a wavelength of 8 mm. The electric field vibrating y-direction has maximum magnitude of  $60Vm^{-1}$ . Choose the correct equations for propagating in adurection electric and magnetic fields if the EM wave is propagating in vacuum: (A)  $E_y = 60 \sin \left[\frac{\pi}{4} \times 10^3 \left(x - 3 \times 10^8 t\right)\right] \hat{j} \text{ Vm}^{-1} \text{B}_z = 2 \sin \left[\frac{\pi}{4} \times 10^3 \left(x - 3 \times 10^8 t\right)\right] \hat{k} \text{ T}$  $\text{(B)} \quad \text{E}_y = 60 \sin \left[ \tfrac{\pi}{4} \times 10^3 \left( x - 3 \times 10^8 t \right) \right] \hat{j} \text{Vm}^{-1} \text{B}_z = 2 \times 10^{-7} \sin \left[ \tfrac{\pi}{4} \times 10^3 \left( x - 3 \times 10^8 t \right) \right] \hat{k} \text{ T}$ E-> y alection.  $\mathrm{E}_y = 60 \sin \left[ rac{\pi}{4} imes 10^3 \left( x - 3 imes 10^8 t 
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ight] \hat{j} \mathrm{Vm}^{-1} B_z = 60 \sin \left[ rac{\pi}{4} imes 10^3 \left( x - 3 imes 10^8 t 
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ight) 
ight] \hat{j} V m^{-1} B_z = 60 \sin \left[ rac{\pi}{4} imes 10^4 \left( x - 4 imes 10^8 t 
ight) 
ight] \hat{k} T$ B > Zaurection. EX = EO SIN = (2+-x)  $E_{\zeta} = 60 \, \text{cm} \, \frac{2\pi}{8 \times 10^3} \, (3 \times 10^8 \, \text{t} - 2)$ = 6051n 1x103 (3x108f-x) Bz = 2×10 Sin #x10 (2×10 t-x)

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Q16: In young's double slit experiment performed using a monochromatic light of wavelength  $\lambda$ . when a glass plate ( $\mu=1.5$ ) of thickness  $x\lambda$  is introduced in the path of the one or the interfering beams, the intensity at the position where the central maximum occurred previously remains unchanged. The value of x will be:

- (A)
- 0.5

batnaifference bx = (h-1) + -(1:5-1)xx = nx

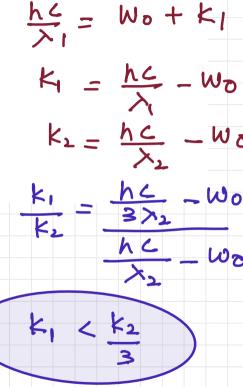
$$\Delta x = (M-1) +$$

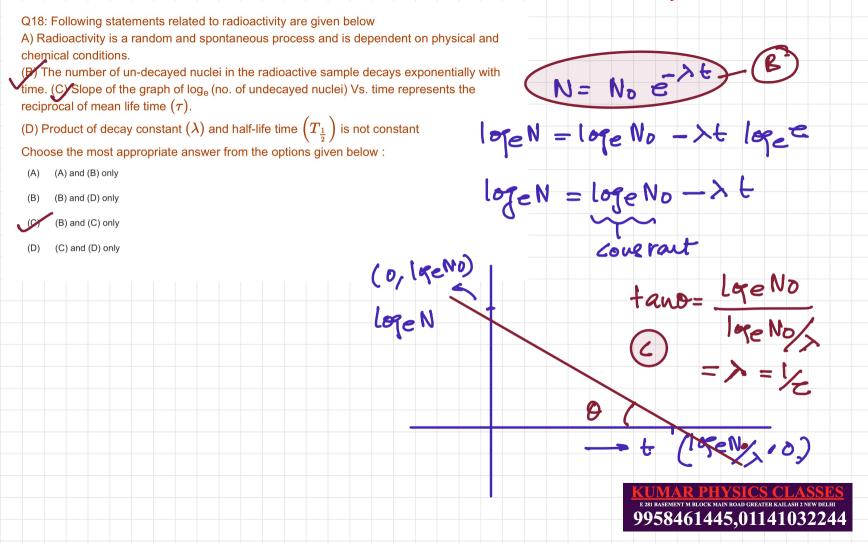
D.5x=1

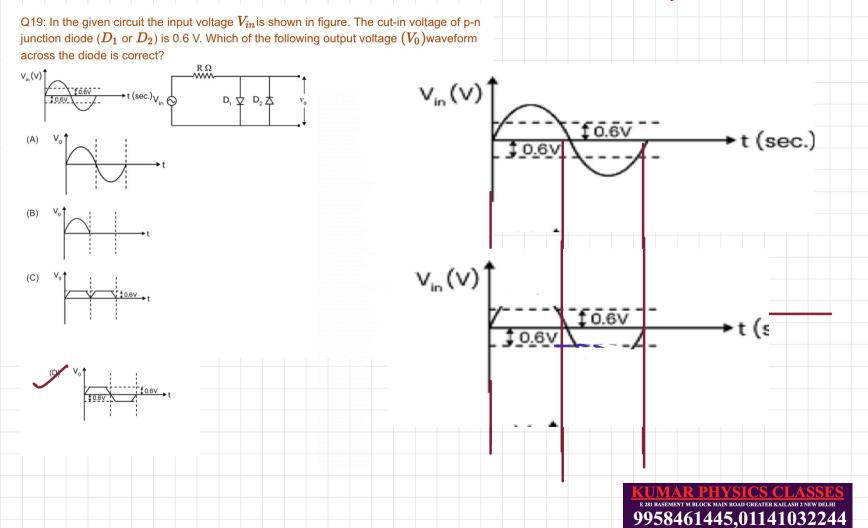
$$\chi = \frac{10}{0.5} = 2$$

Q17: Let  $K_1$  and  $K_2$  be the maximum kinetic energies of photo-electrons emitted when two monochromatic beams of wavelength  $\lambda_1$  and  $\lambda_2$ , respectively are incident on a metallic surface. If  $\lambda_1=3\lambda_2$  then :

- (A)  $K_1>rac{K_2}{3}$
- (B)  $K_1 < rac{K_2}{3}$
- (C)  $K_1=rac{K_2}{3}$
- (D)  $K_2=rac{K_1}{3}$







Q20: Amplitude modulated wave is represented by  $V_{AM}=10\left[1+0.4\cos(2\pi imes10^4t)
ight]\cos(2\pi imes10^7)t$ . The total bandwidth of the amplitude modulated wave is (A) 10 kHz VAM = 10 [ 1+0.4 cos (211×10 +)] cos (211×107) + (B) 20 MHz

(C) 
$$20 \text{ kHz}$$

$$= [0 \text{ Cos } 2\pi \times 10^{3} \text{ t} + 10 \times 6.4 \text{ Cos } (2\pi \times 10^{4}) \text{ t} \text{ cos } (2\pi \times 10^{3}) \text{ t}]$$

$$= [0 \text{ Cos } 2\pi \times 10^{3} \text{ t} + 2 \text{ } [2 \text{ cos } (2\pi \times 10^{4}) \text{ t} \text{ cos } (2\pi \times 10^{3}) \text{ t}]$$

$$= [0 \text{ Cos } (2\pi \times 10^{3} \text{ t} + 2) \text{ } [2 \text{ cos } (2\pi \times 10^{4}) \text{ t} \text{ cos } (2\pi \times 10^{3}) \text{ t}]$$

$$= [0 \text{ Cos } (2\pi \times 10^{3}) \text{ t} + 2 \text{ } [2 \text{ cos } (2\pi \times 10^{4}) \text{ t} \text{ cos } (2\pi \times 10^{3}) \text{ t}]$$

$$+ \text{ Cos } (2\pi \times 10^{3}) \text{ t}$$

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Q21: A student in the laboratory measures thickness of a wire using screw gauge. The readings are 1.22 mm, 1.23 mm, 1.19 mm and 1.20 mm. The percentage error is  $\frac{x}{121}\%$ . The

$$T_{ANG} = \frac{1.22 + 1.23 + 1.19 + 1.20}{4}$$

$$= 1.21$$

$$= 1.21$$

$$01 + .02 + .02 + .01$$

$$= \frac{0.06}{4} = \frac{.03}{2}$$

$$= \frac{0.03}{2} \times 100 = \frac{150}{121} = \frac{2}{121}$$

$$2 = 150$$

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Q22: A zener of breakdown voltage  $V_Z=8V$  and maximum zener current,  $I_{ZM}=10mA$ is subjected to an input voltage  $V_i$  =10 V with series resistance  $R=100\Omega$ . In the given circuit RL represents the variable load resistance. The ratio of maximum and minimum value of R<sub>I</sub> is 2.  $R = 100 \Omega$ 2 Volt  $R = 100 \Omega$ IOM A V, = 10 V T B=RLXIDXIO lomA V, = 10 V T  $V_{z} = 8 \text{ V}$  $I_{zM} = 10 \text{ mA}$ - 800-0hm FL (max)-800-ohn For FL CMAX) 9958461445,01141032244

Q23: In a Young's double slit experiment, an angular width of the fringe is  $0.35^{\circ}$  on a screen placed at 2 m away for particular wavelength of 450 nm. The angular width of the fringe, when whole system is immersed in a medium of refractive index  $\frac{7}{5}$ , is  $\frac{1}{\alpha}$ . The value of  $\alpha$  is \_\_\_\_\_.

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Q24: In the given circuit, the magnitude of  $V_L$  and  $V_C$  are twice that of  $V_R$ . Given that f = 50Hz, the inductance of the coil is  $\frac{1}{K\pi}mH$ . The value of K is \_\_\_\_\_.

$$V_L = 2 V_R$$
  
 $V_c = 2 V_R$ 

$$V_{c} = 2 V_{R}$$

$$V_{c} = 2 V_{R}$$

$$IX_{L} = 2 (IK)$$

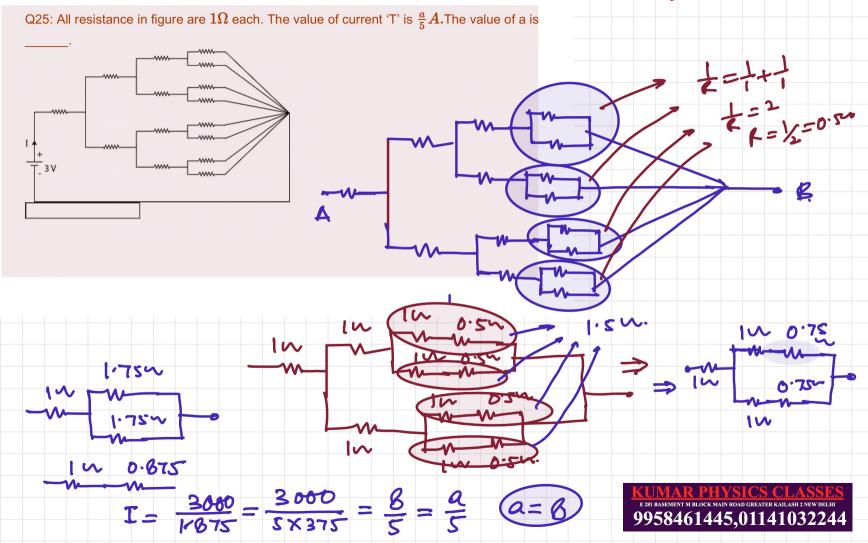
$$2\pi f L = 2 K$$

$$2\pi \times 50 \times 1 \times 15^{3} = 2 \times 5$$

$$100 \times 10^{3} = 10$$

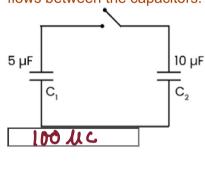
$$100 \times 10^{3} = 10$$

$$100 \times 10^{3} = 10$$



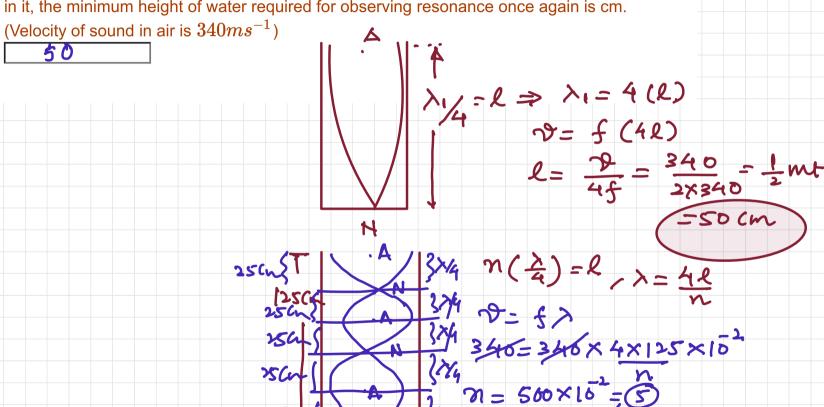
Q26: A capacitor  $C_1$  of capacitance  $5\mu F$  is charged to a potential of 30 V using a battery.

The battery is then removed and the charged capacitor is connected to an uncharged capacitor  $C_2$  of capacitance  $10\mu F$  as shown in figure. When the switch is closed charge flows between the capacitors. At equilibrium, the charge on the capacitor  $C_2$  is  $\mu C$ 



$$q_1 = 5 \times 10^6 \times 30 = 150 \text{MG}$$
 $q_2 = 0$ 
 $q_1 + q_2 = q_1' + q_2'$ 
 $150 \times 10^6 = (C_1 + C_2) \text{ V}$ 
 $V = 150 \times 10^6 = 10 \text{ Voct}$ 

Q27: A tuning fork of frequency 340 Hz resonates in the fundamental mode with an air column of length 125 cm in a cylindrical tube closed at one end. When water is slowly poured in it, the minimum height of water required for observing resonance once again is cm.



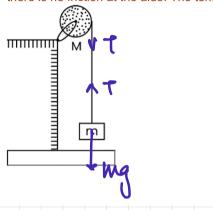
V)

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Q28: A liquid of density  $750kgm^{-3}$  flows smoothly through a horizontal pipe that tapers in cross-sectional area from  $A_1=1.2\times 10^{-2}m^2$  to  $A_2=\frac{A_1}{2}$ . The pressure difference between the wide and narrow sections of the pipe is 4500Pa. The rate of flow of liquid is  $\times 10^{-3}m^3s^{-1}$ .

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Q29: A uniform disc with mass M=4 kg and radius R=10 cm is mounted on a fixed horizontal axle as shown in figure. A block with mass m=2 kg hangs from a massless cord that is wrapped around the rim of the disc. During the fall of the Nock, the cord does not slip and there is no friction at the aide. The tension in the cord is N. (Take  $g=10ms^{-2}$ )



$$20-T=2a - 0 = \frac{4(10\times10^{-1})}{2}$$

$$(0.1)(T)=(0.2)(A) = 2\times10^{-2} \cdot 0.2$$

$$(0.1)(T)=(0.2)(A) = 2\times10^{-2} \cdot 0.2$$

$$(0.1)(T)=(0.2)(A) = 2\times10^{-2} \cdot 0.2$$

$$0.10(T)=(0.02)(A) = 0.2$$

 $S(T)(10\times10^{2})=0 \Rightarrow 0 = \frac{8T}{101} = \frac{7}{2}$ 

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Q30: A car covers AB distance with first one-third at velocity  $v_1 m s^{-1}$ , second one-third at  $v_2ms^{-1}$  and last one-thrid at  $v_3ms^{-1}$  .If  $v_3=3v_1,v_2=2v_1$  and  $v_1=11ms^{-1}$  then the average velocity of the car is  $ms^{-1}$ .

$$\frac{\partial}{\partial t} = \frac{\partial}{\partial t} \Rightarrow t_1 = \frac{\partial}{\partial t} \qquad \frac{\partial}{\partial t} = \frac{\partial}{\partial t} \Rightarrow t_2 = \frac{\partial}{\partial t} \Rightarrow t_3 = \frac{\partial}{\partial t} \Rightarrow t_4 = \frac{\partial}{\partial t} \Rightarrow t_5 = \frac{\partial}{\partial t} \Rightarrow t_7 = \frac{\partial}{\partial t} \Rightarrow t_8 = \frac{\partial}{\partial t}$$

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