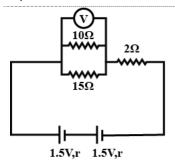
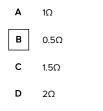
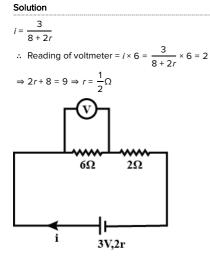
#### #1612238

Topic: Circuit Instruments



If the reading of the ideal voltmeter shown in the circuit is 2V the internal resistance of the two identical cells is





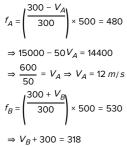
#### #1612240

Topic: Speed of Sound

A stationary source of sound is emitting sound of frequency 500Hz. Two observers A and B lying on the same line as the source, observe frequencies 480Hz and 530Hz

respectively. The velocity of A and B respectively are (in m/s), speed of sound = 300 m/s.









#### #1612245

Topic: Acceleration due to Gravity

The height above the surface of earth at which acceleration due to gravity is half the acceleration due to gravity at surface of earth is ( $R = 6.4 \times 10^6 m$ )



- **B**  $2.6 \times 10^{6}m$ **C**  $12.8 \times 10^{6}m$
- **D** 19.2 × 10<sup>6</sup>m

#### Solution

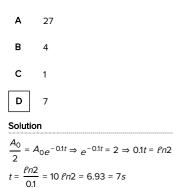
$\frac{g}{2} = \frac{Gm}{(R+h)^2}$	
$g = \frac{Gm}{R^2}$	
$\frac{1}{2} = \frac{R^2}{(R+h)^2}$	
$R + h = \sqrt{2}R$	
<i>R</i> = 0.41 <i>R</i>	

 $= 0.41 \times 6.4 \times 10^{6} m = 2.6 \times 10^{6} m$ 

#### #1612250

#### Topic: Free, Forced and Damped Oscillations

Equation of motion for a particle performing damped harmonic oscillation is given as  $x = e^{-1t} cos(10\pi t + \phi)$ . The times when amplitude will half of the initial is :



#### #1612253

Topic: Change in Nucleus due to Radioactive decay

A sample containing same number of two nuclei A and B start decaying. The decay constant of A and B are 10 J and J. The time after which	$\frac{N_A}{N_B}$ becomes	$\frac{1}{e}$ is
$\begin{bmatrix} \mathbf{A} \end{bmatrix} \frac{1}{9\lambda}$		
$B \qquad \frac{1}{18\lambda}$		
$c = \frac{2}{9\lambda}$		
D $\frac{3}{19\lambda}$		
Solution		
$\frac{N_A}{N_B} = \frac{N_0 e^{-10\lambda t}}{N_0 e^{-\lambda t}} = \frac{1}{e}$		
$\Rightarrow e^{-9\lambda t} = e^{-1}$		
$\Rightarrow 9\lambda t = 1$		
$\Rightarrow t = \frac{1}{9\lambda}$		

#### #1612262

Topic: Drift of electrons

In conducting wire of radius 5 mm, resistivity  $\rho = 1.1 \times 10^{-8}\Omega/m$  and current of 5A is flowing. Drift velocity of free electron is  $1.1 \times 10^{-3} m/s$  find out mobility of free electron.

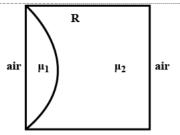
- A 1.57 m<sup>2</sup> volt/sec
- B 1.25 m<sup>2</sup> volt/sec
- c 1.2 m<sup>2</sup> volt/sec
- D 2 m<sup>2</sup> volt/sec

#### Solution

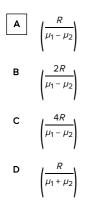
 $\begin{aligned} V_d &= \mu E = \mu \frac{V}{\rho} \\ V_d &= \frac{\mu \cdot IR}{\rho} \frac{\mu \cdot I_{\rho} \rho}{A \rho} = \frac{\mu \cdot I_{\rho}}{A} \\ \mu &= \frac{V_{ct} \cdot A}{I_{\rho}} = \frac{1.1 \times 10^{-3} \times \lambda \times 25 \times 10^{-6}}{5 \times 1.1 \times 10^{-8}} \\ \mu &= 1.57 \ m^2 \ \text{volt/sec.} \end{aligned}$ 

#### #1612277

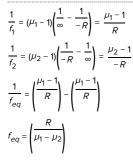
Topic: Combination of Lenses and Mirrors



Find out equivalent focal length of given lens combination

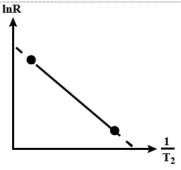


Solution



**#1612288 Topic:** Graphs in Kinematics

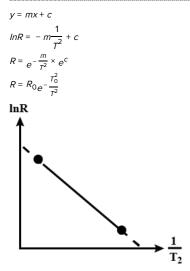




The graph shows the variation of  $\rho_{\Pi R}$  v/s  $\frac{1}{T^2}$ , where R is resistance and T is temperature. Then find R as function of T.

- **A**  $R = R_{0e} \tau_0^2 / \tau^2$
- **B**  $R = R_{0e} \tau^2 / \tau_0^2$
- $\mathbf{C} \qquad R = R_{0e} T^3 / T^0$
- **D**  $R = R_{0e} \tau^3 / \tau_0^3$

#### Solution

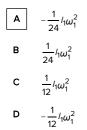


#### #1612308

Topic: Basics of Moment of Inertia

Two uniform circular rough disc of moment of inertia  $l_1$  and  $\frac{l_1}{2}$  are rotating with angular velocity  $\omega_1$  and  $\frac{\omega_1}{2}$  respectively in same direction. Now one disc is placed the other disc co-axially. The change in kinetic energy of the system is :

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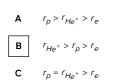
Solution

$$\begin{split} \vec{L}_{I} &= \vec{L}_{f} \\ l_{1}\omega_{1} + \frac{l_{1}}{2} \frac{\omega_{1}}{2} = l_{1}\omega_{f} + \frac{l_{1}}{2}\omega_{t} \\ \frac{5l_{1}\omega_{1}}{4} &= \frac{3}{2}l_{1}\omega_{f}\omega_{f} = \frac{5}{6}\omega_{1} \\ \Delta K. E. &= \left(\frac{1}{2}l_{1}\omega_{f}^{2} + \frac{1}{2}\frac{l_{1}}{2}\omega_{f}^{2}\right) - \left(\frac{1}{2}l_{1}\omega_{1}^{2} + \frac{1}{2}\frac{l_{1}}{2}\left(\frac{\omega_{1}}{2}\right)^{2}\right) \\ &= \frac{1}{2} \cdot \frac{3}{2}l_{1}\frac{25}{36}\omega_{1}^{2} - \frac{1}{2} \cdot \frac{9}{8}l_{1}\omega_{1}^{2} \\ &= \frac{75l_{1}\omega_{1}^{2}}{144} - \frac{9}{8}l_{1}\omega_{1}^{2} \\ &= \frac{75-81}{144}l_{1}\omega_{1}^{2} \\ \Delta K. E = -\frac{1}{24}l_{1}\omega_{1}^{2} \end{split}$$

#### #1612332

#### Topic: Lorentz Force

An electron, a proton and a  $H_e^+$  ion projected into a magnetic field with same kinetic energy, with velocities being perpendicular to the magnetic field. The order of the radii of cirlces traced by them is:



#### Solution

radius of circle is given by

 $r = \frac{mv}{qB} = \frac{p}{qB} = \frac{\sqrt{2mk}}{qB} = \frac{\sqrt{2m}}{qB}\sqrt{k}$ 

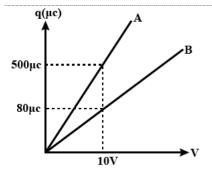
where K is kinetic energy

For poor

$$\begin{aligned} r_p &= \frac{\sqrt{2m_p}}{eB} \sqrt{k} \\ \text{for electron } r_e &= \frac{\sqrt{2m_e}}{eB} \sqrt{k} \\ \text{for } H_e^+ r_{H_e^+} &= \frac{\sqrt{2 \times 4m_p}}{eB} \sqrt{k} = \frac{\sqrt{2m_p}}{eB} \sqrt{k} \\ \text{Clearly } r_{H_e^+} &> r_p > r_e \end{aligned}$$

#### #1612334

Topic: Equivalent Capacitance in series-parallel



Plot A&B represent variation of charge with potential difference across the combination (series and parallel) of two capacitors. Then find the value of capacitance of capacitors.



**D** 25μ*F*, 25μ*F* 

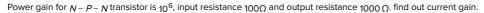
Solution

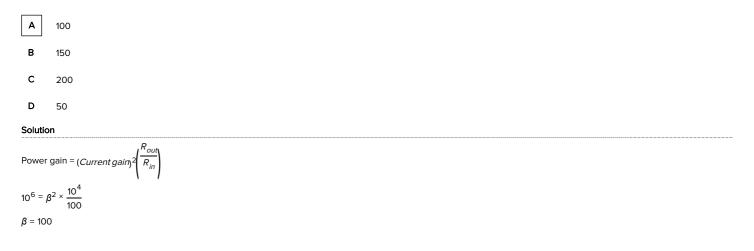
For parallel combination  $q = 10(C_1 + C_2)$   $q_1 = 500 \mu C$   $500 = 10(C_1 + C_2)$   $C_1 + C_2 = 50 \mu F...(i)$ For series combination  $q_2 = 10 \frac{C_1 C_2}{(C - 2 + C_2)}$   $80 = 10 \frac{C_1 C_2}{50}$  From equation ...(i)  $C_1 C_2 = 400...(ii)$ From equation (i) and (ii)

 $C_1 = 10 \mu F \quad C_2 = 40 \mu F$ 

# #1612335

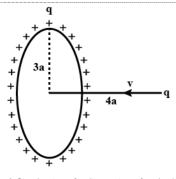
Topic: Transistor





#### #1612336

Topic: Basics of Projectile Motion



A Circular ring of radius  $3_a$  is uniformly charged with charge q is kept in x - y plane with center at origin. A particle of charge q and mass m is projected from  $x = 4_a$  towards origin. Find the minimum speed of projection such that it reaches origin.







$$\sqrt{\frac{q^2}{20\pi\epsilon_0 ma}}$$

Solution

$$W_{ext} + W_{i.n.c.} = \Delta KE + \Delta U$$
  

$$0 = \left(0 - \frac{1}{2}mv^{2}\right) + q\left(\frac{kq}{3a} - \frac{Kq}{5a}\right)$$
  

$$\frac{1}{2}mv^{2} = \frac{2kq^{2}}{15a}$$
  

$$v = \sqrt{\frac{4Kq^{2}}{15ma}} = \sqrt{\frac{q^{2}}{15mc_{0}ma}}$$

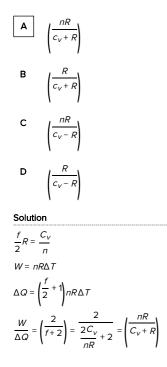
## #1612337

#### Topic: Isobaric, Isochoric, Isothermal Processes

An Ideal gas undergoes an isobaric process. If its heat capacity is  $C_v$  at constant volume and number of mole n, then the ratio of work done by gas to heat given to gas when

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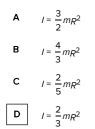
temperature of gas changes by  $\Delta T$  is:



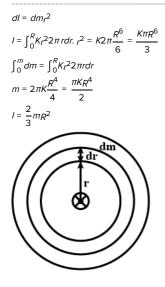
#### #1612338

#### Topic: Basics of Moment of Inertia

Surface mass density of a disc of mass m and radius R is  $\sigma = K/2$ . then its moment of inertia w.r.t. axis of rotation passing through centre and perpendicular to the plane of disc



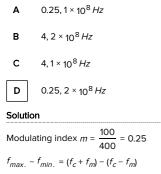
#### Solution



#### #1612340

#### Topic: Amplitude Modulation

A modulating wave of frequency 100 *MHz* and amplitude 100 *V* is superimposed on a carrier wave of frequency 300 *GHz* and amplitude 400 *V*. the value of modulating index and difference between the maximum frequency and minimum frequency of modulated wave are respectively:

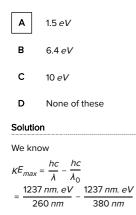


#### $= 2F_M = 2 \times 10^8 Hz$

#### #1612344

#### Topic: Maxwell's Equations

The maximum kinetic energy of electron if wavelength of incident electromagnetic wave is 260 nm and cut-off wavelength is 380 nm given hc = 1237 nm - eV is



= 1.5*eV* 

#### #1612346

Topic: Maxwell's Equations

If  $\stackrel{\bullet}{E} = E_0 \cos(kz) \cos(\omega t)_i$  then  $\stackrel{\bullet}{B}$  for electromagnetic wave is:

**A** 
$$\dot{B} = \frac{E_0}{C}\hat{k}$$
  
**B**  $\dot{B} = \frac{E_0}{C}\sin(kz)\sin(\omega t)\hat{j}$ 

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**C** 
$$\overset{*}{B} = \frac{E_0}{C} \sin(kz) \cos(\omega t)\hat{j}$$
**D** 
$$\overset{*}{B} = \frac{E_0}{C} \cos(kz) \sin(\omega t)\hat{j}$$

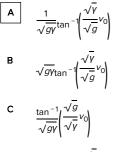
#### Solution

 $\frac{dE}{dz} = -\frac{dB}{dt}$ If  $\frac{\star}{E} = E_0 \cos(kz) \cos(\omega t)$  then  $\frac{\star}{B} = \frac{E_0}{C} \sin(kz) \sin(\omega t)$  will satisfy the equation

#### #1612348

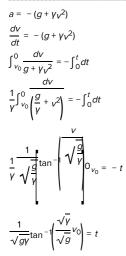
#### Topic: Basics of Projectile Motion

A particle is projected vertically upwards with speed  $v_0$ . The drag force acting on it given by  $f_{drag} = m\gamma_V^2$ . the time when it is at maximum height is:



$$\mathbf{D} = \frac{1}{\sqrt{g\gamma}} \tan^{-1} \left( \frac{\sqrt{\gamma}}{\sqrt{g}} \frac{1}{v_0} \right)$$

#### Solution



#### #1612349

#### Topic: Transformers

In a step-down transform the turn ratio is 1:2 and output power is 2.2 kW if output current is 10 A then the value of input voltage and input current:

A 100 V, 20 A B 110 V, 10 A C 440 V, 5 A D 440 V, 20 A Solution  $P_{out} = V_0/0$   $\Rightarrow 2200 = V_0 \times 10 \Rightarrow V_0 = 220 \text{ volt}$   $\therefore V - i = 2 \times 220 = 440 V(: N_s/N_p = 1/2 = V_0/V_1)$ Also 2200 = 440 ×  $I_i$ 

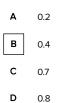
 $\Rightarrow I_i = 5A$ 



#### **#1612350** Topic: Viscosity

The depression of mercury in a capillary tube of radius R<sub>1</sub> is observed to be equal to the rise of water in another capillary tube of radius R<sub>2</sub>. if the ratio of surface tension of

mercury and water is 7.5, ratio of their density  $\frac{\rho_{Hg}}{\rho_{water}}$  = 13.6 and their angle of contact are  $\theta_{Hg}$  = 135° and  $\theta_{water}$  = 0° in the respective tubes then  $R_1/R_2$  is:

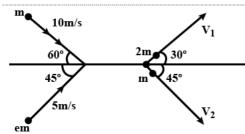


#### Solution

 $|h_{Hg}| = |h_{water}|$   $\frac{2S_{Hg}]cos\theta_{Hg}}{\rho_{Hg}R_{Hg}g} = \frac{2S_wcos\theta_w}{\rho_wR_wg}$   $\frac{R_{Hg}}{R_w} = \frac{\rho_w}{\rho_{Hg}}\frac{S_{hg}}{S_w}\frac{cos\theta_{Hg}}{cos\theta_w} = \frac{1}{13.6} \times 7.5 \times \frac{1}{\sqrt{2}}$   $\frac{R_{Hg}}{R_w} = 0.4$ 

#### #1612351

Topic: Elastic Collisions in One-Dimension



Two particle of masses m and 2m are colliding elastically as given in figure. If V1 and V2 speed of particle just after collision then

#### **A** $V_1 = 11.16 \ m/s, \ V_2 = 6.31 \ m/s$

**B** 
$$V_1 = 10.16 \text{ m/s}, V_2 = 5.31 \text{ m/s}$$

**C**  $V_1 = 9.16 \ m/s, \ V_2 = 6.31 \ m/s$ 

**D**  $V_1 = 6.31 \, m/s, V_2 = 11.16 \, m/s$ 

#### Solution

Using momentum conservation

$$m \times 10\cos 60^{\circ} + 2m \frac{5}{\sqrt{2}} = \frac{mv_2}{\sqrt{2}} + 2mv_1 \frac{\sqrt{3}}{2}$$
  

$$5\sqrt{2} + 10 = v^2 + \sqrt{6}V_1 \dots (A)$$
  
In Y-direction  

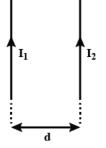
$$2m \frac{5}{\sqrt{2}} - m \frac{10\sqrt{3}}{2} = \frac{2mv_1}{2} - \frac{mv_1}{\sqrt{2}}$$
  

$$10 - 5\sqrt{6} = \sqrt{2}V_1 - V_2 \dots (B)$$
  
Using A and B  

$$V_1 = 6.31 m/s, V_2 = 11.16 m/s$$

#1612352

Topic: Magnetic field



Two parallel infinite wires separated by distance  ${'\it d}'$  carry currents as shown in figure.

The distance from a third infinite wire be kept parallel to wire carrying current  $l_1$ , the wire such that it stays in equilibrium is

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$$\begin{array}{ccc}
\mathbf{A} & \frac{l_2}{l_2 + l_1} d \text{ or } \frac{l_1}{l_1 + l_2} d \\
\end{array}$$

$$\begin{array}{ccc}
\frac{l_2}{l_2 - l_1} d \text{ or } \frac{l_1}{l_1 - l_2} d \\
\end{array}$$

$$\begin{array}{ccc}
\frac{l_2}{l_1 - l_2} d \text{ or } \frac{l_1}{l_1 - l_2} d \\
\end{array}$$

$$\begin{array}{ccc}
\frac{l_2}{l_2 - l_1} d \text{ or } \frac{l_1}{l_1 - l_2} d \\
\end{array}$$

$$D \qquad \frac{2l_2}{l_2 + l_1} d \text{ or } \frac{l_1}{l_1 - l_2} d$$

### Solution

For the case when  $l_1 < l_2$ 

Let the length of the third wire is  $\rho(\rho \rightarrow \infty)$ 

For equilibrium  $F_1 = F_2$ 

$$\Rightarrow \frac{\mu_0 l_1 l}{2\pi x} \ell = \frac{\mu_0 l_2 l}{2\pi (d+x)} \ell \Rightarrow \frac{d+x}{x} = \frac{l_2}{l_1} \Rightarrow \frac{d}{x} = \frac{l_2 - l_1}{l_2} \Rightarrow x = \left(\frac{l_2}{l_2 - l_1}\right) dt$$

For the case when  $I_2 < I_1$ 

 $F_1 = F_2$  $\frac{\mu_0 l_1 l_2}{2\pi x} = \frac{\mu_0 l_2 l_2}{2\pi (x-d)}$  $\Rightarrow \frac{x-d}{x} = \frac{l_2}{l_1}$  $\Rightarrow 1 - \frac{d}{x} = \frac{l_2}{l_1} \Rightarrow \frac{l_1 - l_2}{l_1} = \frac{d}{x}$  $\Rightarrow x = \left(\frac{l_1}{l_1 - l_2}\right)d$  $\therefore \text{ value of x is } \frac{l_2}{l_2 - l_1} \text{ or } \frac{l_1}{l_1 - l_2} d$  $\underbrace{\overset{F_2I}{\textcircled{\bullet}} F_1}_{I_2} \overset{F_1}{\underset{I_1}{\textcircled{\bullet}}} I_1$  $\xrightarrow{F_1}_{x \leftarrow I_2}$ 

#1612353

 $I_1$ 

Topic: Force and Torque

The coordinates of a particle of mass m' as function of time are given by  $x = x_0 + a_1 \cos(\omega_1 t)$  and  $y = y_0 + a_2 \sin(\omega_2 t)$ . The torque on particle about origin at time t = 0 is:

- Α  $(ma_1\omega_1^2 x_0)_k^2$
- $(ma_1\omega_1^2x_0^2)\hat{k}$ в
- $(ma_1\omega_1^2y_0)\hat{k}$ С
- D  $(ma_1\omega_1^2 x_0 y_0)\hat{k}$

Solution

 $\rightarrow$  F<sub>2</sub>

 $\dot{r} = (x_0 + a_1 \cos(\omega_1 t))\hat{j} + (y_0 + a_2 \sin(\omega_2 t))\hat{j}$ 

 $\dot{v} = -a_1 \omega_1 \sin(\omega_1 t) \hat{j} + a_2 \omega_2 \cos(\omega_2 t) \hat{j}$ 

 $\dot{a} = -a_1\omega_1^2\cos(\omega_1 t)\hat{j} - a_2\omega_2^2\sin(\omega_2 t)\hat{j}$ 

at  $t = 0, \dot{r} = (x_0 + a_1)\hat{i} + y_0\hat{j}$ 

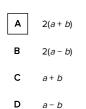
 $\dot{F} = m_a^* = -ma_1\omega_1^2\hat{i}$ 

 $\vec{T} = \vec{T} \times \vec{F} = (ma_1\omega_1^2 y_0)\hat{k}$ 

#### #1612354

# Topic: Prism

For path  $A \rightarrow B$  optical path is



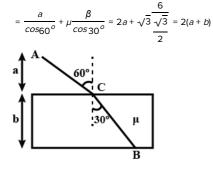
# Solution

 $AC = \frac{a}{\cos 60^{\circ}}; CB = \frac{b}{\cos 30^{\circ}}$ 

 $\sin 60^o = \mu \sin 30^o$ 

 $\mu = \sqrt{3}$ 

optical path =  $AC + \mu CB$ 



#### #1612355

Topic: Introduction to Kinetic Theory

 $R_{MS}$  speed of  $O_2$  molecule is 200 m/s at T = 300 K and P = 3atm. If diameter of molecule is 0.3 nm then collision frequency is:

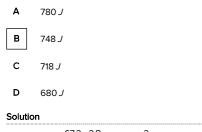
 $\begin{array}{|c|c|c|c|c|c|} \hline \mathbf{A} & 2.9 \times 10^{7} s^{-1} \\ \hline \mathbf{B} & 2.9 \times 10^{6} s^{-1} \\ \hline \mathbf{C} & 2.9 \times 10^{6} s \\ \hline \mathbf{D} & 2.9 \times 10^{5} \\ \hline \hline \mathbf{Solution} \\ \hline \hline \hline & \text{Collision frequency} = \sqrt{\frac{8kT}{\pi m}} \cdot \frac{\sqrt{2} \pi d^{2} N_{A} P}{RT} \\ = \sqrt{\frac{8}{\pi} \times \frac{25}{3}} \cdot \frac{300}{32} \frac{\sqrt{2} \pi \times 9 \times 10^{-29} \times 6.023 \times 10^{23} \times 10^{5}}{\frac{25}{3} \times 300} = \frac{722.14}{25} \times 10^{6} \\ = 28.8 \times 10^{6} = 2.9 \times 10^{7} s^{-1} \end{array}$ 

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#### #1612356

Topic: Gas Laws

He is kept in a rigid container of volume 67.2 ltr at STP. The heat supplied to the gas to increase its temperature by 20 °C is:



$Q = nC_v \Delta T = \frac{67.2}{22.4}$	$\frac{3R}{20} =$	3 × <sup>3</sup> × 8 31/	1 × 20 = 748 /
22.4	2.20-	2 2	+ ~ 20 = 7405

#### #1612357

#### Topic: Nature of Electromagnetic Waves

Some devices and electromagnetic wave are given in Column -I and Column - II, match the device with electromagnetic wave work:

Column - I	Column - II
(A) Mobile	(P) Microwave
(B) Sonar	(Q) IR
(C) Radar	(R) Radio wave
(D) Optical fiber	(S) Ultra sound

# $A \qquad (A \Rightarrow S); (B \Rightarrow Q), (C \Rightarrow P), (D \Rightarrow R)$

В	$(A \Rightarrow Q); (B \Rightarrow S), (C \Rightarrow P), (D \Rightarrow R)$
с	$(A \twoheadrightarrow Q); (B \twoheadrightarrow S), (C \twoheadrightarrow R), (D \twoheadrightarrow P)$
D	$(A \nrightarrow S); (B \nrightarrow Q), (C \nrightarrow R), (D \nrightarrow P)$

#### Solution

#### 1)*Mobile – IR*;

IR wireless is the use of wireless technology in devices or systems that convey data through infrared (IR) radiation. Infrared is electromagnetic energy at a wavelength or wavelengths somewhat longer than those of red light.the Infrared feature or IR LED as is popularly known, smartphones can now be used as a remote controller for TVs, set to boxes, AC etc

#### 2)SONAR - Ultrasound

The ultrasonic sensor uses sonar to determine the distance to an object.

#### 3)Radar - Microwave

Microwave Radar Sensor module has been designed as an alternative to the common PIR motion sensors widely used in burglar alarms and security lights. Like the PIR (https://robu.in/product-category/sensors/ir-and-pir-sensors/)sensor this sensor also detects only movements within its detection range.

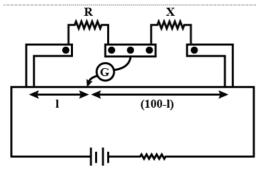
#### 4) Optical Fiber - Radiowaves

Radio over fiber (RoF) or RF over fiber (RFoF) refers to a technology whereby light is modulated by a radio frequency signal and transmitted over an optical fiber (https://en.wikipedia.org/wiki/Optical\_fiber) link. Main technical advantages of using fiber optical links are lower transmission losses and reduced sensitivity to noise and electromagnetic interference compared to all-electrical signal transmission.

# $(A \twoheadrightarrow Q); (B \twoheadrightarrow S), (C \twoheadrightarrow P), (D \twoheadrightarrow R)$

# #1612358

Topic: Potentiometer



Which of the above is incosistent for the given meter bridge:

S.N	R	Р
1.	1000Ω	60 cm
2.	100Ω	13 cm
3.	10Ω	1.5 cm
4.	1Ω	1 cm

**A** 1

**B** 2

с з

# **D** 4

Solutio	n
	D(1

1) $X = \frac{R(100 - \ell)}{\ell}$
= <u>1000(100 - 60)</u>
60 = <u>40,000</u>
= 60
666.66Ω
$2)X = \frac{R(100 - \ell)}{\ell}$
100(100 - 13)
$=\frac{13}{8700}$
= 669.23Ω
$3)\chi = \frac{R(100 - \ell)}{\ell}$
= $\frac{10(100 - 15)}{15}$
= $\frac{850}{15}$
= 56.66Ω
$4)X = \frac{R(100 - \ell)}{\ell}$
$=\frac{1(100-1)}{1}$
= 99Ω
so answer is 4

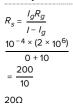
#### #1612360

Topic: Circuit Instruments

Full scale deflection current for a galvanometer is  $10^{-4}A$ . a resistance of  $2 \times 10^{6}\Omega$  is connected in series. Calculate shunt required to correct in into an ammeter of range 0mA + 10mA.

# Solution





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