

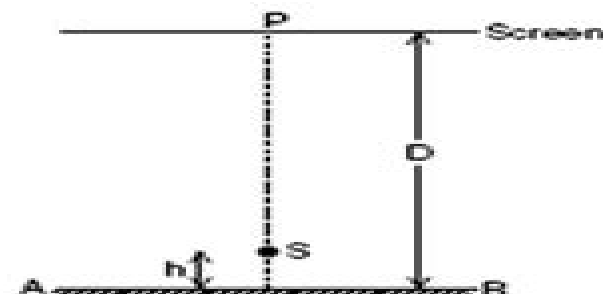
- (a) Are there positive and negative terminals on the galvanometer?
 (b) Copy the figure in your answer book and show the battery and the galvanometer (with jockey) connected at appropriate points.
 (c) After appropriate connections are made, it is found that no deflection takes place in the galvanometer when the sliding jockey touches the wire at a distance of 60 cm from A. Obtain the value of the resistance of

[2+1+2]

5. A hydrogen-like atom (described by the Bohr model) is observed to emit six wavelengths, originating from all possible transitions between a group of levels. These levels have energies between -0.085 eV and -0.544 eV (including both these values).
 (a) Find the atomic number of the atom.
 (b) Calculate the smallest wavelength emitted in these transitions.
 (Take $hc = 1240$ eV-nm, ground state energy of hydrogen atom = -13.6 eV)

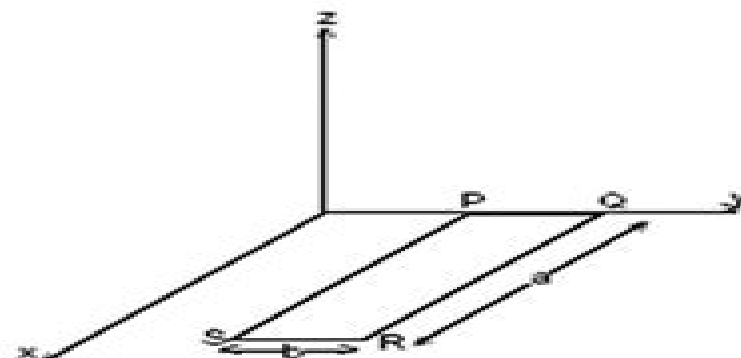
[4+1]

6. A point source S emitting light of wavelength 600 nm is placed at a very small height h above a flat reflecting surface AB (See figure). The intensity of the reflected light is 36% of the incident intensity. Interference fringes are observed on a screen placed parallel to the reflecting surface at a very large distance D from it.
 (a) What is the shape of the interference fringes on the screen?
 (b) Calculate the ratio of the minimum to the maximum intensities in the interference fringes formed near the point P (shown in the figure).
 (c) If the intensity at point P corresponds to a maximum, calculate the minimum distance through which the reflecting surface AB should be shifted so that the intensity at P again becomes maximum.



[1+3+1]

7. A rectangular loop PQRS made from a uniform wire has length a , width b and mass m . It is free to rotate about the arm PQ, which remains hinged along a horizontal line taken as the y-axis (see figure). Take the vertically upward direction as the z-axis. A uniform magnetic field $\vec{B} = (3\hat{i} + 4\hat{k})B_0$ exists in the region. The loop is held in the x-y plane and a current I is passed through it. The loop is now released and is found to stay in the horizontal position in equilibrium.
 (a) What is the direction of the current I in PQ?
 (b) Find the magnetic force on the arm RS.
 (c) Find the expression for I in terms of B_0 , a , b and m .



[1+1+3]

8. Two metallic plates A and B, each of area $5 \times 10^{-4} \text{ m}^2$, are placed parallel to each other at a separation of 1 cm. Plate B carries a positive charge of $33.7 \times 10^{-12} \text{ C}$. A monochromatic beam of light, with photons of energy 5 eV each, starts falling on plate A at $t = 0$ so that 10^{10} photons fall on it per square meter per second. Assume that one photoelectron is emitted for every 10^5 incident photons. Also assume that all the emitted photoelectrons are collected by plate B and the work function of plate A remains constant at the value 2 eV. Determine

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