



24. Define wavefront of a travelling wave. Using Huygens principle, obtain the law of refraction at a plane interface when light passes from a denser to rarer medium.

2

22

\mathbf{OR}

Using lens maker's formula, derive the thin lens formula $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$ for a biconvex lens.

.

25. Two long straight parallel wires A and B separated by a distance d, carry equal current I flowing in same direction as shown in the figure.

- (a) Find the magnetic field at a point P situated between them at a distance x from one wire.
- (b) Show graphically the variation of the magnetic field with distance x for 0 < x < d.

2

26. Using Bohr's atomic model, derive the expression for the radius of nth orbit of the revolving electron in a hydrogen atom.

2

\mathbf{OR}

- (a) Write two main observations of photoelectric effect experiment which could only be explained by Einstein's photoelectric equation.
- (b) Draw a graph showing variation of photocurrent with the anode potential of a photocell.
- 2
- 27. Explain the terms 'depletion layer' and 'potential barrier' in a p-n junction diode. How are the (a) width of depletion layer, and (b) value of potential barrier affected when the p-n junction is forward biased?
 - 2

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