

Name two important processes involved in the formation of a p-n (b) junction diode. With the help of a circuit diagram, explain the working of junction diode as a full wave rectifier. Draw its input and output waveforms. State the characteristic property of a junction diode that makes it suitable for rectification. 55 Draw a ray diagram to show the working of a compound (i) microscope. Obtain the expression for the total magnification for the final image to be formed at the near point. 3 (ii) In a compound microscope an object is placed at a distance of 1.5 cm from the objective of focal length 1.25 cm. If the eye-piece has a focal length of 5 cm and the final image is formed at the near point, find the magnifying power of the microscope. 2 OR (b) (i) Draw a ray diagram for the formation of image of an object by an astronomical telescope, in normal adjustment. Obtain the expression for its magnifying power. (ii) The magnifying power of an astronomical telescope in normal adjustment is 2.9 and the objective and the eveniece are separated by a distance of 150 cm. Find the focal lengths of the two lenses. 5 Explain how free electrons in a metal at constant temperature (m) attain an average velocity under the action of an electric field. Hence obtain an expression for it. 3 (ii) Consider two conducting wires A and B of the same diameter but made of different materials joined in series across a battery. The number density of electrons in A is 1.5 times that in B. Find the ratio of drift velocity of electrons in wire A to that in wire B. 2 A cell emf of (E) and internal resistance (r) is connected across a (b) (1) variable load resistance (R). Draw plots showing the variation of terminal voltage V with (i) R and (ii) the current (I) in the load. 2 (ii) Three cells, each of emf E but internal resistances 2r, 3r and 6r are connected in parallel across a resistor R. Obtain expressions for (i) current flowing in the circuit, and

(ii) the terminal potential difference across the equivalent cell.

3

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