

Chapter 1

Introduction to Electronics

Question A.1: Atomic Structure

- (a) The atom is the smallest constituent of matter that cannot be created or destroyed.
- (b) The atom consists of three subparticles, viz., electron, proton and neutron.

Question A.2: Materials Used for Electronics

- (a) The materials are generally classified into four categories: (i) conductors, (ii) semiconductors, (iii) insulators and (iv) superconductors.
- (b) The atom consists of three subparticles, viz., electron, proton and neutron.
- (c) The atom consists of three subparticles, viz., electron, proton and neutron.

Question A.3: Current in Semiconductors

- (a) Current is the flow of charge carriers in a material.
- (b) Current is the flow of charge carriers in a material.

Question A.4: N-Type and P-Type Semiconductors

- (a) N-type semiconductor is formed by adding a small amount of pentavalent impurity to an intrinsic semiconductor. The impurity atoms have five valence electrons, one of which is free to move, thus creating a negative charge carrier.
- (b) P-type semiconductor is formed by adding a small amount of trivalent impurity to an intrinsic semiconductor. The impurity atoms have three valence electrons, one of which is free to move, thus creating a positive charge carrier.

Question A.5: The PN Junction

- (a) The PN junction is formed by joining an N-type semiconductor and a P-type semiconductor. The N-type semiconductor has an excess of electrons, while the P-type semiconductor has an excess of holes. When the two are joined, the electrons and holes diffuse towards each other, creating a depletion region where the concentration of charge carriers is zero.
- (b) The PN junction is formed by joining an N-type semiconductor and a P-type semiconductor. The N-type semiconductor has an excess of electrons, while the P-type semiconductor has an excess of holes. When the two are joined, the electrons and holes diffuse towards each other, creating a depletion region where the concentration of charge carriers is zero.

Electronic Devices Floyd 9th Edition Solution Manual

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