

# Chapter 1

## Introduction to Electronics

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### Question 1.1: Atomic Structure

- 1. The atom is the smallest particle of matter that cannot be created or destroyed.
- 2. The atom is made up of three subatomic particles: electrons, protons, and neutrons.

### Question 1.2: Materials Used in Electronics

- 3. The materials used in electronics are classified into three categories: conductors, insulators, and semiconductors.
- 4. The most commonly used semiconductor material is silicon.
- 5. A semiconductor is a material whose conductivity lies between that of a conductor and an insulator.

### Question 1.3: Current in Semiconductors

- 6. Current is the flow of electric charge. In semiconductors, it is carried by both electrons and holes.
- 7. Current is produced when an electric field is applied across a semiconductor.

### Question 1.4: N-Type and P-Type Semiconductors

- 8. N-type semiconductor is formed by adding a small amount of pentavalent impurity to an intrinsic semiconductor. It contains free electrons as majority carriers.
- 9. P-type semiconductor is formed by adding a small amount of trivalent impurity to an intrinsic semiconductor. It contains holes as majority carriers.

### Question 1.5: The PN Junction

- 10. The PN junction is formed by joining an N-type semiconductor with a P-type semiconductor. It is the interface between the two materials.
- 11. The PN junction is a semiconductor device that allows current to flow in one direction and blocks it in the other direction.

# Electronic Devices 9th Edition Floyd Solution Manual

**Hussin A.Rothana**



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