

Chapter 1

Introduction to Electronics

Question A.1: Atomic Structure

- (a) The atom is the smallest constituent of matter that cannot be subdivided.
- (b) The atom consists of electrons, protons and neutrons.

Question A.2: Materials Used for Electronics

- (a) The materials are divided into three groups: (i) conductors, (ii) semiconductors, (iii) insulators.
- (b) The atom consists of electrons, protons and neutrons.
- (c) An atom is made up of electrons, protons and neutrons.

Question A.3: Current in Semiconductors

- (a) Current is the flow of electrons in a conductor.
- (b) Current is the flow of electrons in a semiconductor.

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

- (a) N-type semiconductor is made of silicon or germanium atoms in which electrons are present. It is called an n-type semiconductor because it contains a large number of negatively charged electrons.
- (b) P-type semiconductor is made of silicon or germanium atoms in which holes are present. It is called a p-type semiconductor because it contains a large number of positively charged holes.

Question A.5: The PN Junction

- (a) The PN junction is made of two semiconductors, n-type and p-type. It is called a PN junction because it contains a large number of electrons in the n-type and a large number of holes in the p-type. It is called a PN junction because it contains a large number of electrons in the n-type and a large number of holes in the p-type.
- (b) The PN junction is made of two semiconductors, n-type and p-type. It is called a PN junction because it contains a large number of electrons in the n-type and a large number of holes in the p-type.

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