

Semiconductor Electronics: Materials, Devices and Simple Circuits

1. In a semiconductor, the forbidden energy gap between the valence band and the conduction band is of the order of:

- (a) 1 Mev
- (b) 1 ev
- (c) 0.1 Mev
- (d) 5ev

Answer: (b) 1 ev

2. If the conductivity of a semiconductor is only due to break of the covalent band due to the thermal excitation, then the semiconductor is called:

- (a) intrinsic
- (b) extrinsic
- (c) Acceptor
- (d) none of these

Answer: (a) intrinsic

3. In a good conductor, the energy levels in a valence band:

- (a) are partially filled only.
- (b) overlap with conduction band only.
- (c) both (a) and (b) are correct.

Semiconductors Circuits And Devices Electronics Series

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