



Semester: 1st Subject : Fundamentals of Electricals and Electronics(4300018)

Question and Answers Bank

Chapter 2. Diode Theory And Rectifiers

કક્કટર, ઇન્સ્યુલેટર અને સેમિકન્ડક્ટર તેમના એનર્જીબેન્ડનો ઉપયોગ કરીને સમજાવો.

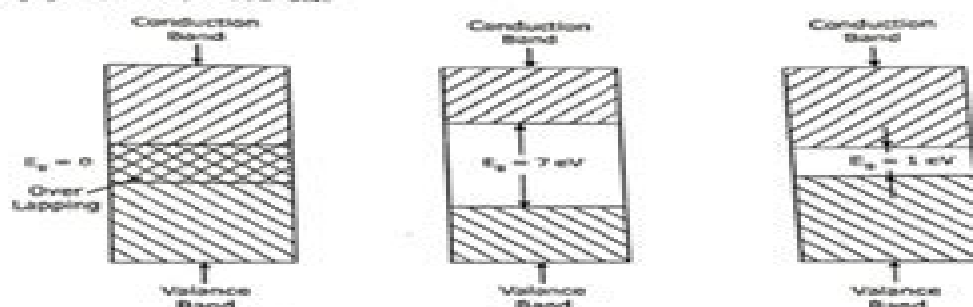
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1. Conductors :

- At room temperature, some materials have the large numbers of free electrons along with valence electron. So, it does not require any external energy (E_g) to make the free electrons available for the conduction. These materials are known as conductor.
- In the conductors, the forbidden band does not exist and the valence band and the conduction band are overlapped as shown in Fig. 2.9(a).
- Examples : Silver, copper, aluminium etc.

2. Insulators :

- Some materials require very large value of forbidden energy to make free electrons available (approximately 7 eV). It is impossible to provide this much energy for the free electrons to exist. It means, these types of materials do not have any free electrons and they do not conduct at all. Hence, these types of materials are known as insulators.
- In the insulators, the valance band and conduction bands are separated by very large energy gap as shown in Fig. 2.9(b).
- Examples : papers, mica, wood etc.



(a) Conductors

(b) Insulators

(c) Semi Conductors

FIG. 2.9 : ENERGY BANDS OF CONDUCTORS, INSULATORS AND SEMI CONDUCTORS

3. Semi Conductors :

- At room temperature, some materials have very less number of free electrons. They required some external energy of the order of 1 eV. If this much energy is supplied to the types of materials, the large numbers of the free electrons are made available.
- These materials do not behave fully as conductor or fully as insulator and hence, they are classified as semi conductor. The valance band and conduction band are separated by 1 eV as shown in Fig. 2.9(c).
- Examples : Silicon, Germanium etc.

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Steve Tribe



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