

Unit 4: Solid state Physics

MCQ Question Bank

Q. No	Question	Answer
1	When a P-type and N-type semiconductors are joined together to form a PN junction, what happens to the Fermi energy levels (a) Fermi energy level decreases for N-type while increases for P-type until equilibrium is obtained (b) Fermi energy level increases for N-type while decreases for P-type until equilibrium is obtained (c) Fermi energy level remains constant but the distribution of holes and electrons changes. (d) Fermi energy level remains unchanged and equilibrium is obtained	A
2	What happens to the Fermi energy level if a forward bias is applied to a PN junction diode? (a) Fermi energy level decreases for N-type while increases for P-type (b) Fermi energy level increases for N-type while decreases for P-type (c) Fermi energy levels remains in equilibrium in both regions to allow current to flow (d) Fermi energy levels increases for both the regions	B
3	What happens to the Fermi energy level if a reverse bias is applied to a PN junction diode? (a) Fermi energy level decreases for N-type while increases for P-type (b) Fermi energy level increases for N-type while decreases for P-type (c) Fermi energy levels remains in equilibrium in both regions to allow current to flow (d) Fermi energy levels increases for both the regions	A
4	When a P-type and N-type semiconductors are joined to form a PN junction (a) The electrons are transferred from P-region to N-region and Fermi energy level of both regions decreases (b) The electrons are transferred from P-region to N-region and Fermi energy level of both regions increases (c) The electrons are transferred from N-region to P-region and Fermi energy level both regions attains equilibrium (d) The electrons are transferred from N-region to P-region and Fermi energy level of both regions increases	C
5	In equilibrium state of a PN junction diode (a) Fermi energy level of P-region is higher than that of N-region (b) Fermi energy level of N-region is lower than that of P-region (c) Fermi energy levels of both the regions are at minimum value (d) Fermi energy levels of both the regions attend thermal equilibrium	D
6	In an equilibrium state of an NPN transistor, what is true for Fermi energy levels (a) (Fermi energy emitter) > (Fermi energy base) > (Fermi energy collector) (b) (Fermi energy emitter) < (Fermi energy base) > (Fermi energy collector) (c) (Fermi energy emitter) = (Fermi energy base) = (Fermi energy collector) (d) (Fermi energy emitter) > (Fermi energy base) < (Fermi energy collector)	C
7	For a biased NPN transistor, what is true for Fermi energy levels (a) (Fermi energy emitter) > (Fermi energy base) > (Fermi energy collector) (b) (Fermi energy emitter) < (Fermi energy base) > (Fermi energy collector) (c) (Fermi energy emitter) = (Fermi energy base) = (Fermi energy collector) (d) (Fermi energy emitter) > (Fermi energy base) < (Fermi energy collector)	A
8	Hall effect is true for (a)Metals only (b)Semiconductors only (c)Both metals and semiconductors (d)For N-type semiconductors only	C

Mcq In Solid State Physics

R Sanford



Mcq In Solid State Physics:

Mcq In Solid State Physics Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mcq In Solid State Physics**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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