

Unit 4: Solid state Physics

MCQ Question Bank

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

Role Of Solid State Phenomena In Electri

Marcel A. Müller



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