

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. J. D. Tilley



Mcq In Solid State Physics:

Longman 1001 Physics MCQs for O Level Tan Peng Yeon, 2007-11-08 This book is written for the latest Physics GCE O Level syllabus It is structured in a way to effectively increase the understanding of Physics concepts The questions are grouped into units according to the major topics in the syllabus Within each unit similar questions are grouped together In most groups variables are added to each subsequent question to increase the difficulty level **Class 11-12 Physics MCQ (Multiple Choice Questions)** Arshad Iqbal, 2019-05-17 The Class 11 12 Physics Multiple Choice Questions MCQ Quiz with Answers PDF College Physics MCQ PDF Download Quiz Questions Chapter 1 13 Practice Tests with Answer Key Physics Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 11 12 Physics MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 11 12 Physics MCQ PDF book helps to practice test questions from exam prep notes The Class 11 12 Physics MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 11 12 Physics Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Applied physics motion and force work and energy atomic spectra circular motion current electricity electromagnetic induction electromagnetism electronics electrostatic fluid dynamics measurements in physics modern physics vector and equilibrium tests for college and university revision guide Class 11 12 Physics Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book Grade 11 12 Physics MCQs Chapter 1 13 PDF includes college question papers to review practice tests for exams Class 11 12 Physics Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET MCAT SAT ACT GATE IPhO competitive exam College Physics Mock Tests Chapter 1 13 eBook covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Motion and Force MCQs Chapter 2 Work and Energy MCQs Chapter 3 Atomic Spectra MCQs Chapter 4 Circular Motion MCQs Chapter 5 Current and Electricity MCQs Chapter 6 Electromagnetic Induction MCQs Chapter 7 Electromagnetism MCQs Chapter 8 Electronics MCQs Chapter 9 Electrostatic MCQs Chapter 10 Fluid Dynamics MCQs Chapter 11 Measurements in Physics MCQs Chapter 12 Modern Physics MCQs Chapter 13 Vector and Equilibrium MCQs The Motion and Force MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Newton s laws of motion projectile motion uniformly accelerated motion acceleration displacement elastic and inelastic collisions fluid flow momentum physics equations rocket propulsion velocity formula and velocity time graph The Work and Energy MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Energy conservation of energy non conventional energy sources work done by a constant force work done formula physics problems and power The Atomic Spectra MCQ PDF e Book Chapter 3 practice test to solve MCQ questions on Bohr s atomic model electromagnetic spectrum inner shell transitions and laser The Circular Motion MCQ PDF e Book Chapter 4 practice test to solve MCQ

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