

Multiple Choice Questions I

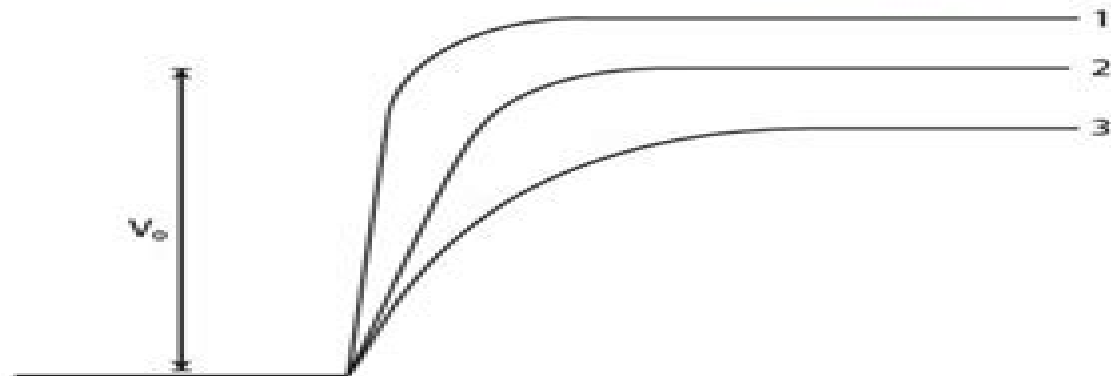
14.1 The conductivity of a semiconductor increases with increase in temperature because

- (a) number density of free current carriers increases
- (b) relaxation time increases
- (c) both number density of carriers and relaxation time increase
- (d) number density of current carriers increases, relaxation time decreases but effect of decrease in relaxation time is much less than increase in number density

Answer:

- (d) number density of current carriers increases, relaxation time decreases but effect of decrease in relaxation time is much less than increase in number density

14.2 In the figure, V_0 is the potential barrier across a p-n junction, when no battery is connected across the junction



- (a) 1 and 3 both correspond to forward bias of junction
- (b) 3 corresponds to forward bias of junction and 1 corresponds to reverse bias of junction
- (c) 1 corresponds to forward bias and 3 corresponds to reverse bias of junction
- (d) 3 and 1 both correspond to reverse bias of junction

Answer:

- (b) 3 corresponds to forward bias of junction and 1 corresponds to reverse bias of junction

14.3 In the figure, assuming the diodes to be ideal,

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Linda Feaman



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Physics Handbook & Study Guide Grade 11-12 IEB Kevin Smith, 2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text Exemplars of Curriculum Theory Arthur K. Ellis, 2014-01-09 This book crosses the divide between theoreticians and practitioners by demonstrating how curriculum theories and models are applied in classrooms today It ties together broad educational theories such as progressivism essentialism perennialism etc curriculum models characterized as learner centered society centered or knowledge centered and exemplars of curriculum theories and models such as Reggio Emilia Core Knowledge the International Baccalaureate etc How to Grade for Learning Ken O'Connor, 2017-10-04 With more than 50 000 books sold this resource for teachers and school teams will open illuminating and productive new visions of how to improve grading practices **Handbook of Research on Science Learning Progressions** Hui Jin, Duanli Yan, Joseph Krajcik, 2024-07-30 Gathering contributions from leading scholars around the world this handbook offers a comprehensive resource on the most recent advances in research surrounding the theories methodologies and applications of science learning progressions Researchers and educators have used learning progressions to guide the design and alignment of curriculum instruction and assessment and to help students learn scientific knowledge and practices in a coherent and connected way across multiple years This handbook lays out the development and current state of research in this field across four sections learning progression theories and methodologies learning progressions to promote student learning teachers learning and use of learning progressions and new technology in learning progression research Featuring internationally recognized experts in learning progression research as well as up and coming voices the Handbook of Research on Science Learning Progressions offers a defining new resource for researchers teachers and teacher educators and curriculum and assessment developers in science education *Common Core Standards and English Language Arts Grades 6 -12: Strategies for Student Success* Toby Karten, 2013-01-01 The tri fold laminated reference guide Common Core Standards English Language Arts Strategies for Student Success Grades 6 12 by Toby Karten presents an at a glance overview of the CCSS for English Language Arts ELA for students in grades 6 12 It is intended to help middle and high school teachers understand the organization and application of the standards for diverse students including those with special needs Topics covered in the guide include Challenges of the cross disciplinary design of CCSS for ELA at the secondary level College and career readiness CCR CCR anchor standards for reading literature RL and informational text RI CCR anchor standards for writing W CCR anchor standards for speaking and listening SL CCR anchor standards for language L Differentiating instruction for students at different reading levels Models for measuring and evaluating text complexity Strategies for helping students with disabilities achieve ELA standards The CCSS for ELA raise the bar to ensure students master the reading writing speaking and listening

and language skills they need to be college and career ready in literacy They will yield effective outcomes for all students including those with disabilities if educators creatively and consistently embrace them and connect them to all of their students

International Handbook of Inquiry and Learning Ravit Golan Duncan, Clark Chinn, 2021-06-29 International Handbook of Inquiry and Learning is an overview of scholarship related to learning through and engagement in inquiry Education takes on complex dimensions when learners solve problems draw conclusions and create meaning not through memorization or recall but instead through active cognitive affective and experiential processes Drawing from educational psychology and the learning sciences while encompassing key subdisciplines this rigorous globally attentive collection offers new insights into what makes learning through inquiry both possible in context and beneficial to outcomes Supported by foundational theories key definitions and empirical evidence the book's special focus on effective environments and motivational goals equity and epistemic agency among learners and support of teachers sets powerful multifaceted new research directions in this rich area of study

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