

### Multiple Choice Questions I

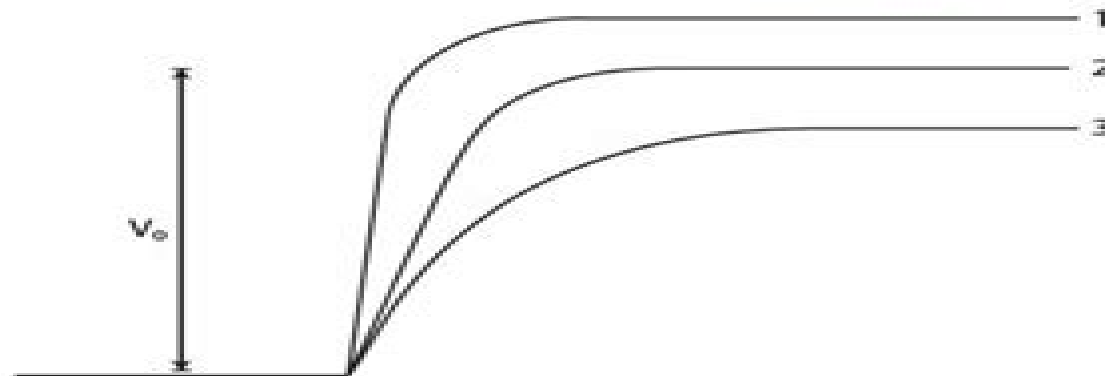
14.1 The conductivity of a semiconductor increases with increase in temperature because

- (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,

# Physics Exemplar Grade 12 2014

**Michael Hoelscher**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Physics Exemplar Grade 12 2014**

1. Understanding the eBook Physics Exemplar Grade 12 2014
  - The Rise of Digital Reading Physics Exemplar Grade 12 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Exemplar Grade 12 2014
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics Exemplar Grade 12 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Exemplar Grade 12 2014
  - Personalized Recommendations
  - Physics Exemplar Grade 12 2014 User Reviews and Ratings
  - Physics Exemplar Grade 12 2014 and Bestseller Lists
5. Accessing Physics Exemplar Grade 12 2014 Free and Paid eBooks

- Physics Exemplar Grade 12 2014 Public Domain eBooks
- Physics Exemplar Grade 12 2014 eBook Subscription Services
- Physics Exemplar Grade 12 2014 Budget-Friendly Options
- 6. Navigating Physics Exemplar Grade 12 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Exemplar Grade 12 2014 Compatibility with Devices
  - Physics Exemplar Grade 12 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Exemplar Grade 12 2014
  - Highlighting and Note-Taking Physics Exemplar Grade 12 2014
  - Interactive Elements Physics Exemplar Grade 12 2014
- 8. Staying Engaged with Physics Exemplar Grade 12 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Exemplar Grade 12 2014
- 9. Balancing eBooks and Physical Books Physics Exemplar Grade 12 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Exemplar Grade 12 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Exemplar Grade 12 2014
  - Setting Reading Goals Physics Exemplar Grade 12 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Exemplar Grade 12 2014
  - Fact-Checking eBook Content of Physics Exemplar Grade 12 2014
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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