

QUESTION 9: POWER SUPPLIES

9.1	9.1.1	Transformation steps-down the AC ✓ voltage from 220 V to the required voltage✓	(2)
	9.1.2	Rectification converts the AC signal✓ into a pulsating DC signal✓	(2)
9.2	9.2.1	The diode will be forward-biased because the anode is made more positive with respect to the cathode,✓ thereby reducing the depletion region✓ and allowing charge carriers to cross the junction resulting in conduction. ✓	
	9.2.2	The diode will be reverse-biased because the anode is made more negative with respect to the cathode,✓ thereby widening the depletion region✓ this will prevent majority charge carriers crossing the junction and the diode behaves like an insulator.✓	(3)
9.3	9.3.1	The series resistor limits the current that flows through the Zener protecting it. ✓ It also acts a voltage divider with the Zener setting the Zener voltage.	(1)
	9.3.2	$P = V_x \times I_x$ ✓ $I_x = \frac{P}{V_x}$ $I_x = \frac{2}{5}$ = 400 mA	(3)
	9.3.3	$R_s = \frac{V_s - V_x}{I_x}$ ✓ $R_s = \frac{12 - 5}{0.4}$ = 17.5 Ω	(3)
	9.3.4	$I_L = \frac{V_x}{R_s}$ ✓ $I_L = \frac{5}{1000}$ = 5 mA	(3)

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Table of Contents 2013 Exemplar Electrical Technology

1. Understanding the eBook 2013 Exemplar Electrical Technology
 - The Rise of Digital Reading 2013 Exemplar Electrical Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Exemplar Electrical Technology
 - 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 2013 Exemplar Electrical Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Exemplar Electrical Technology

- Personalized Recommendations
- 2013 Exemplar Electrical Technology User Reviews and Ratings
- 2013 Exemplar Electrical Technology and Bestseller Lists

5. Accessing 2013 Exemplar Electrical Technology Free and Paid eBooks
 - 2013 Exemplar Electrical Technology Public Domain eBooks
 - 2013 Exemplar Electrical Technology eBook Subscription Services
 - 2013 Exemplar Electrical Technology Budget-Friendly Options
6. Navigating 2013 Exemplar Electrical Technology eBook Formats
 - ePUB, PDF, MOBI, and More
 - 2013 Exemplar Electrical Technology Compatibility with Devices
 - 2013 Exemplar Electrical Technology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Exemplar Electrical Technology
 - Highlighting and Note-Taking 2013 Exemplar Electrical Technology
 - Interactive Elements 2013 Exemplar Electrical Technology
8. Staying Engaged with 2013 Exemplar Electrical Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Exemplar Electrical Technology
9. Balancing eBooks and Physical Books 2013 Exemplar Electrical Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Exemplar Electrical Technology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2013 Exemplar Electrical Technology
 - Setting Reading Goals 2013 Exemplar Electrical Technology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2013 Exemplar Electrical Technology

- Fact-Checking eBook Content of 2013 Exemplar Electrical Technology
- 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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