

ELECTRONIC CIRCUITS-1

QUESTION BANK –Answers for Unit 1 – Diode & its applications(Clipppers & clampers)

1. Determine v_o for each network of shown below for the input shown.



Ans:-

- (a) Si diode open for positive pulse of v_i and $v_o = 0 \text{ V}$
 For $-20 \text{ V} < v_i \leq -0.7 \text{ V}$ diode "on" and $v_o = v_i + 0.7 \text{ V}$.
 For $v_i = -20 \text{ V}$, $v_o = -20 \text{ V} + 0.7 \text{ V} = -19.3 \text{ V}$
 For $v_i = -0.7 \text{ V}$, $v_o = -0.7 \text{ V} + 0.7 \text{ V} = 0 \text{ V}$



- (b) For $v_i \leq 5 \text{ V}$ the 5 V battery will ensure the diode is forward-biased and $v_o = v_i - 5 \text{ V}$
 At $v_i = 5 \text{ V}$
 $v_o = 5 \text{ V} - 5 \text{ V} = 0 \text{ V}$
 At $v_i = -20 \text{ V}$
 $v_o = -20 \text{ V} - 5 \text{ V} = -25 \text{ V}$
 For $v_i > 5 \text{ V}$ the diode is reverse-biased and $v_o = 0 \text{ V}$.



2. Determine v_o for each network of Fig shown below for the input shown

Electronic Circuits Question Bank With Answers

Lei Shi



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Table of Contents Electronic Circuits Question Bank With Answers

1. Understanding the eBook Electronic Circuits Question Bank With Answers
 - The Rise of Digital Reading Electronic Circuits Question Bank With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Electronic Circuits Question Bank With Answers
 - 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 Electronic Circuits Question Bank With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electronic Circuits Question Bank With Answers
 - Personalized Recommendations
 - Electronic Circuits Question Bank With Answers User Reviews and Ratings
 - Electronic Circuits Question Bank With Answers and Bestseller Lists
5. Accessing Electronic Circuits Question Bank With Answers Free and Paid eBooks
 - Electronic Circuits Question Bank With Answers Public Domain eBooks
 - Electronic Circuits Question Bank With Answers eBook Subscription Services
 - Electronic Circuits Question Bank With Answers Budget-Friendly Options

6. Navigating Electronic Circuits Question Bank With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Electronic Circuits Question Bank With Answers Compatibility with Devices
 - Electronic Circuits Question Bank With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electronic Circuits Question Bank With Answers
 - Highlighting and Note-Taking Electronic Circuits Question Bank With Answers
 - Interactive Elements Electronic Circuits Question Bank With Answers
8. Staying Engaged with Electronic Circuits Question Bank With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electronic Circuits Question Bank With Answers
9. Balancing eBooks and Physical Books Electronic Circuits Question Bank With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electronic Circuits Question Bank With Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electronic Circuits Question Bank With Answers
 - Setting Reading Goals Electronic Circuits Question Bank With Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electronic Circuits Question Bank With Answers
 - Fact-Checking eBook Content of Electronic Circuits Question Bank With Answers
 - 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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