

First / second semester BE Examination.

June / July 2019

Basic Electrical Engineering.

18ELE13/23

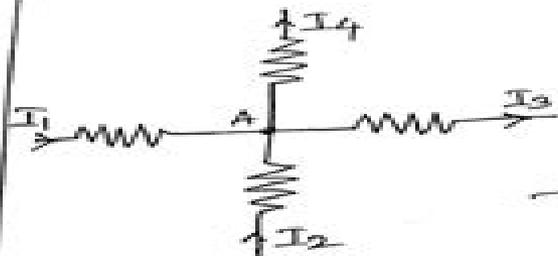
Max. Marks: 100.

Prepared By: Prof. Ravindra Motekar

10 State & Explain Kirchhoff's laws? (8M).

i) Current Law:

The algebraic sum of all currents meeting at any junction of an electrical ckt is zero.
ie, $\sum I = 0$



By KCL

$$I_1 + I_2 - I_3 - I_4 = 0.$$

$$\text{or } I_1 + I_2 = I_3 + I_4.$$

"At any junction of electric ckt, the sum of currents entering the node is equal to sum of currents leaving the node".

ii) Voltage Law:-

"In any closed electric ckt, the algebraic sum of all emf's & resistive drops is equal to zero.

$$\text{ie, } \sum E + \sum IR = 0.$$

All voltage rise are taken as +ve & all voltage drops are taken as -ve.



Basic Electrical Engineering Jntu Notes

H Kauffman



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Table of Contents Basic Electrical Engineering Jntu Notes

1. Understanding the eBook Basic Electrical Engineering Jntu Notes
 - The Rise of Digital Reading Basic Electrical Engineering Jntu Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Engineering Jntu Notes
 - 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 Basic Electrical Engineering Jntu Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Engineering Jntu Notes
 - Personalized Recommendations
 - Basic Electrical Engineering Jntu Notes User Reviews and Ratings
 - Basic Electrical Engineering Jntu Notes and Bestseller Lists
5. Accessing Basic Electrical Engineering Jntu Notes Free and Paid eBooks
 - Basic Electrical Engineering Jntu Notes Public Domain eBooks
 - Basic Electrical Engineering Jntu Notes eBook Subscription Services
 - Basic Electrical Engineering Jntu Notes Budget-Friendly Options

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