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core course for all engineering  
students viz. electronics and  
communication engineering,  
computer engineering, civil  
engineering, mechanical engineering  
etc. Since this course will normally be  
offered at the first year level of  
engineering, the author has made  
modest effort to give in a concise  
form, various features of Basic  
Electrical Engineering using simple  
language and thorough solved

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examples, avoiding the rigorous of mathematics. This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power generation & distribution and machine control. The increasing requirement for Junior Engineers/technicians in PSUs has created a large job opportunities for the diploma holders all over India. Every PSU conducts its own Qualifying exam Based on the vacancies available for various positions such as Junior Engineer and Technician. This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL, BEL, gail, IOCL, HPCL, ONGC, DMRC, DRDO, Railway, Staff Selection Commission and other diploma engineering competitive

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correct answers MCQ covering all topics including all about the latest & Important about Applied Science, Mechanical Engineering Sciences, Electrical Circuits, Elements of Electrical Engineering Electronics, Computer-Aided Engineering Drawing, Basic Computer Skills, Electrical Circuit Laboratory, Electrical Writing, Electrical Machines, Communication and Computer Networks, Electrical Power Generation, Electrical and Electronics Measurements, Transmission and Distribution, Power Electronics, Computer-Aided Electrical Engineering, C-Programming, Utilization of Electrical energy and Management, Electric Motor Control and lots more.

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‘ BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS ’ is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering. This book is designed for comprehensively covering all topics relevant to the

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subject. Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education, Karnataka. This book is divided into eight chapters: Chapter 1 – Basics of Electricity Chapter 2 – Electrostatics Chapter 3 – Electromagnetic Induction Chapter 4 – AC Fundamentals Chapter 5 – AC Circuits Chapter 6 – Transformers Chapter 7 – Batteries, Relays and Motors Chapter 8 – Passive Components The text provides detailed explanations and uses numerous easy-to-follow examples accompanied by diagrams and step-by-step solutions. Illustrative problems are presented in terms of commonly used voltages and current ratings. To enhance the utility of the book, important points and review

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questions (objective and descriptive type) have been included at the end of each chapter. Model question papers have been provided to help students prepare better for the semester examinations. Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests. It is hoped that this book will be of immense use to teachers and students of Polytechnics. Suggestions for improvement in the future editions of this book will be appreciated. I wish to express my gratitude to MEI Polytechnic, Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri. Nitin S. Shah, M/s Sapna Book House, Bangalore for publishing this book. I

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am thankful to M/s Datalink,  
Bangalore for meticulous processing  
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