

## **APPLIED ELECTRICITY/ BASIC ELECTRICITY**

### **EXAMINATION SCHEME**

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper to be taken at one sitting.

**PAPER 1** will consist of fifty multiple-choice objective questions to be answered in 1 hour for 50 marks.

**PAPER 2** will consist of three sections: Sections A, B and C as follows:

**Section A** will be compulsory for all candidates. It will consist of four questions out of which candidates will be required to answer any three.

**Section B** will be for candidates in Ghana only. It will consist of three questions out of which candidates will be required to answer two.

**Section C** will be for candidates in Nigeria, Sierra Leone and The Gambia only. It will also consist of three questions out of which candidates will be required to answer two.

Thus, candidates will be required to answer five questions in all. The paper will last 1 hour and carry 50 marks.

**PAPER 3** will be a practical paper of two experiments both of which are to be carried out by candidates in 3 hours for 100 marks.

### **SAMPLE QUESTIONS**

#### **PAPER 1** **(OBJECTIVE)**

1. Which of the following is a consequence of earth fault?
- A. Blown fuse
  - B. Disconnected terminal not touching a metallic part of the appliance
  - C. A cut along conductor path
  - D. A conductor touching a metallic part of the appliance

# Basic Electricity Applied Electricity

**R.K. Rajput**



## **Basic Electricity Applied Electricity:**

*The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education, 1984

*The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army* American Council on Education, 1980

**Basic Electricity** U.S. Bureau of Naval Personnel, 2012-05-09 Originally a training course best nontechnical coverage Topics include batteries circuits conductors AC and DC inductance and capacitance generators motors transformers amplifiers etc Many questions with answers 349 illustrations 1969 edition

**A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering)** BL Theraja, 2005 The primary objective of vol I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil mechanical mining textile chemical industrial environmental aerospace electronic and computer engineering both at the Degree and diploma level Based on the suggestions received from our esteemed readers both from India and abroad the scope of the book has been enlarged according to their requirements Almost half the solved examples have been deleted and replaced by latest examination papers set up to 1994 in different engineering college and technical institutions in India and abroad

*Basic Electrical Engineering* Mehta V.K. & Mehta Rohit, 2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand

Guide to the evaluation of educational experience in the Armed Service 76 American Council on Education, 1977

*Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education, 1978

**Bioimpedance and Bioelectricity Basics** Orjan G. Martinsen, Sverre Grimnes, 2014-08-14 Bioimpedance and Bioelectricity Basics 3rd Edition paves an easier and more efficient way for people seeking basic knowledge about this discipline This book's focus is on systems with galvanic contact with tissue with specific detail on the geometry of the measuring system Both authors are internationally recognized experts in the field The highly effective easily followed organization of the second edition has been retained with a new discussion of state of the art advances in data analysis modelling endogenous sources tissue electrical properties electrodes instrumentation and measurements This book provides the basic knowledge of electrochemistry electronic engineering physics physiology mathematics and model thinking that is needed to understand this key area in biomedicine and biophysics Covers tissue impedance from the ground up in an intuitive manner supported with figures and examples New chapters on electrodes and statistical analysis Discusses in detail dielectric and electrochemical aspects geometry and instrumentation as well as electrical engineering concepts of network

theory providing a cross disciplinary resource for engineers life scientists and physicists      *Catalog of Hospital Corps Schools and Courses* United States. Navy Department. Bureau of Medicine and Surgery,1944      **Basic Electrical**

**Installation Work 2365 Edition** Trevor Linsley,2015-04-10 Everything needed to pass the first part of the City Guilds 2365 Diploma in Electrical Installations Updated in line with the 3rd Amendment of the 17th Edition IET Wiring Regulations this new edition covers the City Guilds 2365 02 course Written in an accessible style with a chapter dedicated to each unit of the syllabus this book helps you to master each topic before moving on to the next End of chapter revision questions enable learners to check their understanding and consolidate key concepts learnt in each chapter With a companion website containing videos animations worksheets and lesson plans this resource will be invaluable to both students and lecturers alike The eighth edition contains Full colour diagrams and photographs to explain difficult concepts Clear definitions of technical terms to make the book a quick and easy reference Extensive online material to help both students and lecturers The companion website material is available at [www.routledge.com/cw/linsley](http://www.routledge.com/cw/linsley)      *Basic Electrical Engineering* Ritu Sahdev, Although a number of books written by various authors on the subject are available in the market However the author feels that this book will facilitate the students not only to prepare for the regular University examinations The book is also quite suitable for the professionals since many live examples have been incorporated The book has the following exclusive features i The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students ii Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice iii At the end of each chapter its summary highlights are given This will enable the students to revise the subject matter quickly iv A number of short answer and test questions have been given at the end of each chapter While answering these questions the readers will have to think deep into the subject matter This will improve their analytical approach Consequently the students readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems v A sufficient number of objective type questions MCQ have been given at the end of each chapter These questions will help the students to perform better in the competitive examinations vi The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily Although typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding      Community College of the Air Force General Catalog Community College of the Air Force (U.S.),1978      **Basic Electrical Installation Work** Trevor Linsley,2013-05-08 Everything needed to pass the first part of the City Guilds 2365 Diploma in Electrical Installations Aligned with the 17th edition IET Wiring Regulations Amendments this new edition has been fully updated to cover the City Guilds 2365 02 course Written in an accessible style with a chapter dedicated to each unit of the syllabus this book helps you to master each topic before moving on to the next End of chapter revision questions enable learners to check their understanding and consolidate key concepts learnt in each chapter With a brand new website containing videos animations

worksheets and lesson plans this resource will be invaluable to both students and lecturers alike      *Basic Electrical Engineering* K. N. Srinivas,2013-12-30 The aim of this book is to provide a consolidated text for the first year B E Computer Science and Engineering students and B Tech Information Technology students of Anna University The syllabus has been thoroughly revised for the non semester yearly pattern by the University The book made up of five chapters systematically covers the five units of the syllabus It begins with a detailed discussion on the fundamentals of electric circuits DC circuits AC circuits 3 phase circuits resonance and the network theorems Lecture type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book Magnetic circuits and various magnetic elements and their properties with number of illustrations are presented DC machines and transformers are further dealt with Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers      *Program Aid* ,1946

**Experiments In Basic Electrical Engineering** S.K. Bhattacharya,2007 It Has Often Been Experienced That Students Are Required To Perform Experiments On Certain Topic Before The Relevant Theory Has Been Taught In The Class A Laboratory Manual Which In Addition To A Set Of Instructions For Performing Experiments Includes Related Theory In Brief Could Help Students Understand Experiments Better In Response Of Demand From A Large Number Of States For An Appropriate Laboratory Manual In Basic Electricity And Electrical Measurements The T T T I Chandigarh Has Prepared This Manual Which Has Been Tried Out In Various Polytechnics And Improved Based On The Feedback The Basic Objective Of The Manual Is To Encourage Students To Perform Experiments Independently And Purposefully The Manual Organises The Information To Enable The Students To Verify Known Concepts And Principles And To Follow Certain Procedures And Practices And Thereby Acquire Relevant Skills Detailed Instructions For Carrying Out Each Experiment Alongwith Relevant Theory In Brief Have Been Given The Objectives For Performing An Experiment Have Been Included At The Beginning Of Each Experiment A List Of Questions Given At The End Of Each Experiment Will Help Students Evaluate His Own Understanding The Manual Also Includes Guidelines For Students And Teachers For Its Effective Use An Assessment Proforma Given At The Beginning Of The Manual May Be Used By The Teachers In Evaluating The Students

Comprehensive Basic Electrical Engineering R.K. Rajput,2005      BASIC ELECTRICAL AND ELECTRONICS ENGINEERING Dr. K. A. Navas,T. A. Suhail,2011-08-01 The book is written per the syllabus of first year engineering degree course for various universities It covers basic topics of electrical and electronics engineering It also includes worked out examples University examination questions and answers exercise etc in every chapter This book is suitable for course in basic electrical engineering under various Universities Authors have tried to elucidate the topics in such a way that even a

mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of the topics Other features include attractive writing style well structured equations and numerical examples pictures of high clarity etc This book is one of the prescribed text books for the syllabus of Kerala University B Sc Electronics course      **Slides and Slidefilms for REA Co-ops** ,1951      **Resources in Education** ,1977-10

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