

**COURSE OBJECTIVES:**

- To introduce the basics of electric circuits and analysis
- To impart knowledge in the basics of working principles and application of electrical machines
- To introduce analog devices and their characteristics
- To educate on the fundamental concepts of digital electronics
- To introduce the functional elements and working of measuring instruments

**UNIT I ELECTRICAL CIRCUITS****9**

DC Circuits: Circuit Components: Conductor, Resistor, Inductor, Capacitor – Ohm's Law - Kirchhoff's Laws –Independent and Dependent Sources – Simple problems- Nodal Analysis, Mesh analysis with Independent sources only (Steady state)  
Introduction to AC Circuits and Parameters: Waveforms, Average value, RMS Value, Instantaneous power, real power, reactive power and apparent power, power factor – Steady state analysis of RLC circuits (Simple problems only)

**UNIT II ELECTRICAL MACHINES****9**

Construction and Working principle- DC Separately and Self excited Generators, EMF equation, Types and Applications. Working Principle of DC motors, Torque Equation, Types and Applications. Construction, Working principle and Applications of Transformer, Three phase Alternator, Synchronous motor and Three Phase Induction Motor.

**UNIT III ANALOG ELECTRONICS****9**

Resistor, Inductor and Capacitor in Electronic Circuits- Semiconductor Materials: Silicon & Germanium – PN Junction Diodes, Zener Diode –Characteristics Applications – Bipolar Junction Transistor-Biasing, JFET, SCR, MOSFET, IGBT – Types, I-V Characteristics and Applications, Rectifier and Inverters

**UNIT IV DIGITAL ELECTRONICS****9**

Review of number systems, binary codes, error detection and correction codes, Combinational logic - representation of logic functions-SOP and POS forms, K-map representations - minimization using K maps (Simple Problems only)

**UNIT V MEASUREMENTS AND INSTRUMENTATION****9**

Functional elements of an instrument, Standards and calibration, Operating Principle, types -Moving Coil and Moving Iron meters, Measurement of three phase power, Energy Meter, Instrument Transformers-CT and PT, DSO- Block diagram- Data acquisition.

**TOTAL: 45 PERIODS****COURSE OUTCOMES:**

After completing this course, the students will be able to

1. Compute the electric circuit parameters for simple problems
2. Explain the working principle and applications of electrical machines
3. Analyze the characteristics of analog electronic devices
4. Explain the basic concepts of digital electronics
5. Explain the operating principles of measuring instruments

**TEXT BOOKS:**

1. Kothari DP and I.J Nagrath, "Basic Electrical and Electronics Engineering", Second Edition, McGraw Hill Education, 2020
2. S.K.Bhattacharya "Basic Electrical and Electronics Engineering", Pearson Education, Second Edition, 2017.
3. Sedha R.S., "A textbook book of Applied Electronics", S. Chand & Co., 2008
4. James A .Svoboda, Richard C. Dorf, "Dorf's Introduction to Electric Circuits", Wiley, 2018.
5. A.K. Sawhney, Puneet Sawhney 'A Course in Electrical & Electronic Measurements & Instrumentation', Dhanpat Rai and Co, 2015.

**REFERENCES:**

1. Kothari DP and I.J Nagrath, "Basic Electrical Engineering", Fourth Edition, McGraw Hill Education, 2019.
2. Thomas L. Floyd, 'Digital Fundamentals', 11<sup>th</sup> Edition, Pearson Education, 2017.
3. Albert Malvino, David Bates, 'Electronic Principles, McGraw Hill Education; 7<sup>th</sup> edition, 2017.
4. Mahmood Nahvi and Joseph A. Edminister, "Electric Circuits", Schaum' Outline Series, McGraw Hill, 2002.
5. H.S. Kalsi, 'Electronic Instrumentation', Tata McGraw-Hill, New Delhi, 2010

# Basic Electrical And Electronics Engineering Question Bank

**RD Boyd**



## **Basic Electrical And Electronics Engineering Question Bank:**

**Question Bank In Electrical And Electronics Engineering** Rai H C, *Best Question Bank for Basic Electrical and Electronics Engineering* Na Vikraman,2020-06-11 This book has been written for the BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Mechanical Bio Medical Bio Tech BCA MCA and All B Sc Department Students The basic aim of this book is to provide a basic knowledge in Basic Electrical and Electronics Engineering This Basic Electrical and Electronics Engineering Question bank is used for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All the concepts are explained in a simple clear and complete manner to achieve progressive learning This book is divided into five chapter question banks Each chapter is well supported with the necessary illustration practical examples and solved problems

**FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGINEERING, SECOND EDITION** GHOSH, SMARAJIT,2007-09-13 This second edition extensively revised and updated continues to offer sound practically oriented modularized coverage of the full spectrum of fundamental topics in each of the several major areas of electrical and electronics engineering Circuit Theory Electrical Measurements and Measuring Instruments Electric Machines Electric Power Systems Control Systems Signals and Systems Analog and Digital Electronics including introduction to microcomputers The book conforms to the syllabi of Basic Electrical and Electronic Sciences prescribed for the first year engineering students It is also an ideal text for students pursuing diploma programmes in Electrical Engineering Written in a straightforward style with a strong emphasis on primary principles the main objective of the book is to bring an understanding of the subject within the reach of all engineering students What is New to This Edition Fundamentals of Control Systems Chapter 24 Fundamentals of Signals and Systems Chapter 25 Introduction to Microcomputers Chapter 32 Substantial revisions to chapters on Transformer Semiconductor Diodes and Transistors and Field Effect Transistors Laplace Transform Appendix B Applications of Laplace Transform Appendix C PSpice Appendix E key Features Numerous solved examples for sound conceptual understanding End of chapter review questions and numerical problems for rigorous practice by students Answers to all end of chapter numerical problems An objective type Questions Bank with answers to hone the technical skills of students for viva voce and preparation for competitive examinations

**Basic Electrical and Electronics Engineering** R.K. Rajput,2007 *Basic Electrical and Electronics Engineering* S. K. Bhattacharya,2011 This book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical electronics can easily understand the basics It offers an unparalleled exposure to the entire gamut of topics such as Electricity Fundamentals Network Theory Electro magnetism Electrical Machines Transformers Measuring Instruments Power Systems Semiconductor Devices Digital Electronics and Integrated Circuits

*KTU Question Bank (EST130)* AMJITH S,Dr. MANJU J, This book is prepared as per the revised syllabus 2019 of Basic

Electrical and Electronics Engineering course for APJ Abdul Kalam Technological University It is prepared using the text books and reference books given in the course syllabus and a few other internationally reputed works Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them Previous year solved problems will help the students to achieve good marks

*2025-26 RRB JE Electronics & Allied Engineering Study Material 496 995 E.* YCT Expert Team , 2025 26 RRB JE Electronics Allied Engineering Study Material 496 995 E This book contains 10 topics of Electronics Engineering and Computer Science

Network Analysis & Synthesis 2nd Revised Edition Wadhwa C L, **Question Bank on Electrical and Electronics Engineering with Question Papers from Various Competitive and Recruitment Examinations** C. Harish Rai,2020-03-30 This book follows a logical concept building approach rather than only formula based as offered by other books The objective has been to structure a complete examination oriented reference book covering the fundamental aspects of theory at a glance before proceeding to their relevant questions The latest questions 2017 and 2018 from IES with their complete explanations have been given at the end of the text to impart a valuable insight into problem solving approach

*Proceedings of the 6th Annual Conference of Engineering and Implementation on Vocational Education (ACEIVE 2024)* Kinanti Wijaya,Muhammad Dominique Mendoza,Olnes Yosefa Hutajulu,2025-06-08 This is an open access book Faculty of Engineering State University of Medan UNIMED will hold The 6th Annual Conference Of Engineering And Implementation On Vocational Education ACEIVE 2024 will take place from 20th October 2024 The 6th ACEIVE 2024 Theme is The Role of Vocational Education Technology Engineering and Science for Worth Life in the Society 5 0 Era Consist of sub themes Structural and Material Engineering Structural Failure Prevention Asset Management and Infrastructure Rehabilitation and Retrofitting Transportation Management and Engineering Geotechnical Engineering and Environment Engineering At ACEIVE 2024 we will present five speakers from various worlds and institutions namely 1 Prof Dr Syawal Gultom M Pd Indonesia 2 Prof Hsin Hsin Tung Ph D Taiwan 3 Prof Dr Wan Ahmad Jaafar Wan Yahya Malaysia 4 Prof Clyde Eirikur Hull Ph D USA The 6th ACEIVE 2024 will be held offline at Digilib Building Universitas Negeri Medan

*Question Bank on Electrical and Electronics Engineering with Question Papers from Various Competitive and Recruitment Examinations* C. Harish Rai,2020-03-30 This book follows a logical concept building approach rather than only formula based as offered by other books The objective has been to structure a complete examination oriented reference book covering the fundamental aspects of theory at a glance before proceeding to their relevant questions The latest questions 2017 and 2018 from IES with their complete explanations have been given at the end of the text to impart a valuable insight into problem solving approach

India Today ,2003-10 *Basic Electrical And Electronics Engineering I (For Wbut)* Bhattacharya S. K.,2010-09 NETWORK THEORY SMARAJIT GHOSH,2005-01-01 This book offers an excellent and practically oriented introduction to the basic concepts of modern circuit theory It builds a thorough and rigorous understanding of the analysis techniques of electric networks and also explains the essential procedures involved in the

synthesis of passive networks Written specifically to meet the needs of undergraduate students of electrical and electronics engineering electronics and communication engineering instrumentation and control engineering and computer science and engineering the book provides modularized coverage of the full spectrum of network theory suitable for a one semester course A balanced emphasis on conceptual understanding and problem solving helps students master the basic principles and properties that govern circuit behaviour A large number of solved examples show students the step by step processes for applying the techniques presented in the text A variety of exercises with answers at the chapter ends allow students to practice the solution methods Besides students pursuing courses in engineering the book is also suitable for self study by those preparing for AMIE and competitive examinations An objective type question bank at the end of book is designed to see how well the students have mastered the material presented in the text Publisher's Monthly ,2005 **Basic Electrical and Electronics Engineering** Ramana Pilla, Gulivindala Suresh & Venkata Lalitha Narla, This book is designed based on the revised Syllabus R23 of JNTU for the undergraduate B Tech BE Students of all branches who study Basic Electrical and Electronics Engineering The book establishes a firm understanding of the basic laws of electric circuits electrical machines measuring instruments energy resources electricity bill safety measures semiconductor devices basic electronic circuits and digital electronics The book also describes various waveforms including sinusoidal and other periodic for evaluation of RMS value average value form factor and peak factor principle of operation construction details performance equations and applications of DC machine principle of operation and construction details of moving iron instruments moving coil instruments energy meter cathode ray oscilloscope properties of semiconductor materials principle of operation of PN junction diode principle of operation of bipolar junction transistor transistor types and their configurations various number systems BCD Excess 3 Gray codes and their conversions Boolean algebra etc The contents of this book are presented in a simple way for easy understanding of students and can be used as self study material *Science Reporter* ,1990 Basic Electrical Engineering and Electronics D.K. Sharma,P. Sharma,1986 *Basic Electrical and Electronics Engineering* R. Murugan,2016 The Electronics Journal ,1914

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### **Basic Electrical And Electronics Engineering Question Bank Introduction**

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