

Ies Exam Syllabus For Civil Engineering

Design of Steel Structures Making Things Happen GENERAL STUDIES & ENGINEERING APTITUDE (2020-21 IES/ESE) Civil Services Chronicle October 2020 Fundamentals of Engineering Heat and Mass Transfer PRINCIPLES OF TRANSPORTATION ENGINEERING Previous Years' Solved Question Papers GATE Civil Engineering 2019 An Introduction to Soil Mechanics and Foundations Engineering Thermodynamics Electrical Power Systems Theory of Machines IES Working Paper UPSC IAS Prelims Exam 2020 Mock Test 11 Objective Electrical Technology UPSC IAS Prelims 2020 GS Paper-1: Practice Mock Test 6 Basic Electrical Engineering Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) SSC-JE 2019 Civil Engineering Previous Years Topicwise Objective Detailed Solution with Theory Engineering Hydrology IES - ESE Civil Engineer (CE) 2020 | Prelims | Paper- II | 5 Full Length Mock Test + Sectional Tests | Latest Edition Practice Kit UPSC IAS Prelims Exam 2020 GS Paper-I Practice Mock Test 1 Project Planning and Control with PERT & CPMElectrical Machines-ISOil Mechanics and Foundations MECHANICAL ENGINEERING (UPPSC/STATE PSU/PSC/IES-AE) UPSC IAS Prelims 2020 GS Paper-1: Practice Mock Test 2 Integrated Circuits UPSC IAS Prelims 2020 GS Paper-1: Practice Mock Test 5 Surveying Vol. I Careers Digest A Textbook of Strength of Materials UPSC IAS Prelims 2020 GS Paper-1: Practice Mock Test 8 Basic Civil Engineering Pathfinder-Civil Services Main Examination Civil Engineering UPSC IAS Prelims 2020 GS Paper-1: Practice Mock Test 4 Concrete Technology Basic Concepts of Electrical Engineering Pratiyogita Darpan 25 Years UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995-2019) 10th Edition

Design of Steel Structures

Making Things Happen

GENERAL STUDIES & ENGINEERING APTITUDE (2020-21 IES/ESE)

Civil Services Chronicle October 2020

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

Fundamentals of Engineering Heat and Mass Transfer

This edition has been thoroughly revised and enlarged. It is still considered to be a must for all those sitting Civil Engineering examinations.

PRINCIPLES OF TRANSPORTATION ENGINEERING

Previous Years' Solved Question Papers GATE Civil Engineering 2019

An Introduction to Soil Mechanics and Foundations

So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Engineering Thermodynamics

Electrical Power Systems

This Book Presents A Practical-Oriented, Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis & Network Theorems, Electromagnetism & Magnetic Circuit, Alternating Current & Voltages, Electrical Measurement & Measuring Instrument And Electric Machines. Salient Features: # Clarification Of Basic Concepts # Several Solved Examples With Detailed Explanation # At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems # Written In Very Simple Language And Suitable For Self-Study # Step-By-Step Procedures Given For Solving Numerical

Theory of Machines

The book covers the topics in depth, yet at the same time in a concise and student friendly way. The content has been arranged in a very organized and graded manner- (e.g. Chapter 6 on Tension Members) The flow is very well structured and topics have been.

IES Working Paper

This book is mainly intended to meet the needs of undergraduate students of Civil Engineering. In preparing the first edition of this book, I had two principal aims: firstly to provide the student with a description of soil behavior-and of the effects of the clay minerals and the soil water on such behavior-which was rather more detailed than is usual in an elementary text, and secondly to encourage him to look critically at the traditional methods of analysis and design. The latter point is important, since all such methods require certain simplifying assumptions without

which no solution is generally possible. Serious errors in design are seldom the result of failure to understand the methods as such. They more usually arise from a failure to study and understand the geology of the site, or from attempts to apply analytical methods to problems for which the implicit assumptions make them unsuitable. In the design of foundations and earth structures, more than in most branches of engineering, the engineer must be continually exercising his judgment in making decisions. The analytical methods cannot relieve him of this responsibility but properly used, they should ensure that his judgment is based on sound knowledge and not on blind intuition. I hope that the book will prove to be of use to students when their courses are over, and help to bridge the awkward gap between theory and practice.

UPSC IAS Prelims Exam 2020 Mock Test 11

UPSC IAS Prelims Exam 2020: Mock Test Series UPSC IAS Preliminary Exam 2020: General Studies Paper-1 UPSC Civil Services Examination Prelims 2020 Mock Test for General Studies Paper-1, Practice Solved Test -20 2018 Prelims- 33+ questions asked from MYUPSC Test Series Programme 2019 Prelims- 40+ questions asked from MYUPSC Test Series Programme UPSC Civil Services Prelims Exam 2020 Test Series There are Full Length 60 Very High Quality Tests that match very UPSC standard (acknowledged by hundreds of toppers every year). 1. These 60 Tests are structured in such a way as to help you start from scratch and gradually gain advanced knowledge through self study using standard textbooks and multiple revisions. 2. First 10 Tests are based on all Important NCERT Textbooks (New NCERTs). 3. There will be full length REVISION TEST after every 5 Tests. This helps in timely revision of every important topic you have read, including current affairs, before you move on to new topics. 4. Every Test will cover Current Affairs comprehensively from May 1, 2019. This helps you read and revise current affairs from the beginning. 5. All tests will cover previous year question papers of UPSC civil services. NDA, CDS, IES, CAPF exams. This feature helps you understand the expectations of UPSC and prepare accordingly. 6. Every test will cover 10 percent of previous test's syllabus. This is to let you not forget what you have read for first test and thereafter. Helps you revise previous tests before the next test. 7. There will be section-wise analysis of your performance in each test. This helps you know where you need to put extra efforts to prepare well for your weakest areas. 8. Unlimited access to previous tests in the form of PDFs. This test series will seriously prepare you to tackle actual exam with full confidence. MYUPSC - UPSC CSP (2020) Test series will strategically provide its students with an in-depth coverage of the syllabus and scientifically designed revision plans covering the entire static and current portions (multiple times). With the help of guidance, we aim to make sure that our students are exam ready, with all the skills and tools needed to handle any surprise UPSC throws at them. UPSC IAS Prelims Exam 2020 Practice Solved Test Paper Unique Features of MYUPSC Prelims Test Series: 1. Comprehensive coverage of entire syllabus of UPSC CSP exam through UPSC standard MCQs 2. Sectional Tests have been designed in a manner that students can cover each subject comprehensively in sufficient time and can evaluate his/her performance through our tests 3. Strictly adhering to UPSC pattern, the nature of questions ranges from factual to conceptual, proportionally dividing in each of the Test Papers 4. Options of MCQs have also been arranged in such a manner that elimination tactics can be applied by students while solving questions 5. All tests

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Objective Electrical Technology

Study materials for Civil service examination

UPSC IAS Prelims 2020 GS Paper-1:Practice Mock Test 6

Basic Electrical Engineering

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007)

UPPSC/STATE PSU/PSC/IES-AE MECHANICAL ENGINEERING CHAPTER-WISE SOLVED PAPERS

SSC-JE 2019 Civil Engineering Previous Years Topicwise Objective Detailed Solution with Theory

2020-21 IES/ESE GENERAL STUDIES & ENGINEERING APTITUDE CIVIL ENGINEERING SOLVED PAPERS

Engineering Hydrology

UPSC IAS Prelims Exam 2020: Prelims Test Series 2018 Prelims- 33+ questions asked from MYUPSC Test Series Programme 2019 Prelims- 40+ questions asked from MYUPSC Test Series Programme There are Full Length 60 Very High Quality Tests that match very UPSC standard (acknowledged by hundreds of toppers every year). These 60 Tests are structured in such a way as to help you start from scratch and gradually gain advanced knowledge through self study using standard textbooks and multiple revisions. First 10 Tests are based on all Important NCERT Textbooks (New NCERTs). There will be full length REVISION TEST after every 5 Tests. This helps in timely revision of every important topic you have read, including current affairs, before you move on to new topics. Every Test will cover Current Affairs comprehensively from May 1, 2019. This helps you read and revise current affairs from the beginning. All tests will cover previous year question papers of UPSC civil services. NDA, CDS, IES, CAPF exams. This feature helps you understand the expectations of UPSC and prepare accordingly. Every test will cover 10 percent of previous test's syllabus. This is to let you not forget what you have read for first test and thereafter. Helps you revise previous tests before the next test. There will be section-wise analysis of your performance in each test. This

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IES - ESE Civil Engineer (CE) 2020 | Prelims | Paper- II | 5 Full Length Mock Test + Sectional Tests | Latest Edition Practice Kit

UPSC IAS Prelims Exam 2020 GS Paper-I Practice Mock Test 1

The thoroughly Revised and Updated 10th edition of Disha's BESTSELLER "UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995-2019)" consists of past years solved papers of the General Studies Paper 1 & 2 distributed into 8 Units and 52 Topics. The book has been empowered with Unique Inputs/ Articles by one of the Most esteemed faculties for IAS - Mrunal on 'Understanding the IAS Exam & Strategies to Crack the Prelim & Main Exam', How to Attempt the IAS Main Exam Questions?, How to write Essays for GS IV Main exam, along with Solutions to 2017-19 exams. The book provides UNSOLVED Mains Papers from 2013-18, divided topic-wise. The book also provides List of Essays divided topic-wise from 1993-2018. The strength of the book lies in the Errorless DETAILED Solutions. The book is 100% useful for both the General Studies papers (1 and 2) of the Prelims/ CSAT.

Project Planning and Control with PERT & CPM

UPSC Civil Services Preliminary Examination 2020 Test Paper 2018 Prelims- 33+ questions asked from MYUPSC Test Series Programme 2019 Prelims- 40+ questions asked from MYUPSC Test Series Programme There are Full Length 60 Very High Quality Tests that match very UPSC standard (acknowledged by hundreds of toppers every year). These 60 Tests are structured in such a way as to help you start from scratch and gradually gain advanced knowledge through self study using standard textbooks and multiple revisions. First 10 Tests are based on all Important NCERT Textbooks (New NCERTs). There will be full length REVISION TEST after every 5 Tests. This helps in timely revision of every important topic you have read, including current affairs, before you move on to new topics. Every Test will cover Current Affairs comprehensively from May 1, 2019. This helps you read and revise current affairs from the beginning. All tests will cover previous year question papers of UPSC civil services. NDA, CDS, IES, CAPF exams. This feature helps you understand the expectations of UPSC and prepare accordingly. Every test will cover 10 percent of previous test's syllabus. This is to let you not forget what you have read for first test and thereafter. Helps you revise previous tests before the next test. There will be section-wise analysis of your performance in each test. This helps you know where you need to put extra efforts to prepare well for your weakest areas. Unlimited access to previous tests in the form of PDFs. This test series will seriously prepare you to tackle actual exam with full confidence. MYUPSC - UPSC CSP (2020) Test series will strategically provide its students with an in-depth coverage of the syllabus and scientifically designed revision plans covering the entire static and current portions (multiple times). With the help of guidance, we aim to make sure that our students are exam ready, with all the skills and tools needed to handle any surprise UPSC throws at them. Unique Features of MYUPSC Prelims Test Series Comprehensive coverage of entire syllabus of UPSC CSP exam through UPSC standard MCQs Sectional Tests have been designed in a manner that students can cover each subject comprehensively in sufficient time and can evaluate his/her performance through our tests Strictly adhering to UPSC pattern, the nature of questions ranges from factual to conceptual, proportionally dividing in each of the Test Papers Options of MCQs have also been arranged in such a manner that elimination tactics can be applied by students while solving questions All tests will be conducted in same manner as in real examination hall which helps in better time management and prepare students to solve MCQs correctly under exam pressure Performance Analysis of aspirants, Section wise analysis, Difficulty Analysis, All India Rank, comparison with toppers, Integrated Score Card, Analysis of Mock Test papers based on difficulty level & nature of questions etc. will be provided to students. It will help in evaluating their performance and course correction

Electrical Machines-I

This book is one-stop solution for GATE aspirants to crack the GATE exam. The book includes previous years GATE questions segregated topic-wise along with exam analysis at the beginning of every unit. It will help the GATE aspirants to get an idea about the pattern and weightage of questions asked in GATE examination. The book also contains one free online mock test based on GATE examination pattern for practice.

Soil Mechanics and Foundations

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.

MECHANICAL ENGINEERING (UPPSC/STATE PSU/PSC/IES-AE)

UPSC, An acronym for the Union Public Service Commission, is India's premier central recruiting agency and is responsible for appointments and examinations for all India Services and group A & group B of Central Services. Indian Engineering Services (IES) exam, also known as Engineering Services Examination (ESE), is a national level recruitment exam organized by the Union Public Service Commission (UPSC). The exam is conducted to recruit candidates for engineering positions for the various departments working under the Government of India. The Engineering Services Examination is conducted for four branches of engineering named as Civil Engineering (CE), Mechanical Engineering (ME), Electrical Engineering (EE), Electronics and Telecommunication Engineering (EC). The IES exam is considered as one of the toughest examinations in the country. Nearly, two lakh candidates appear for the examination every year. Engineering Services Exam or IES exam recruits Group A and Group B officers at the technical positions for the Government of India. The IES exam is a three-stage recruitment process - IES Preliminary, IES Main and Personality Test. On the basis of merit of candidates in the IES exam, they are recommended to the Union Government for the available posts. Nature of work for an engineering officer selected through the IES exam depends on the engineering branch and the cadre s/he is recruited for. UPSC has published the notification for UPSC IES/ESE examination to recruit eligible candidates for the engineering positions for the various departments working under the Government of India.

UPSC IAS Prelims 2020 GS Paper-1:Practice Mock Test 2

Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine.

Integrated Circuits

Offers a collection of essays on philosophies and strategies for defining, leading, and managing projects. This book explains to technical and non-technical readers alike what it takes to get through a large software or web development project. It does not cite specific methods, but focuses on philosophy and strategy.

UPSC IAS Prelims 2020 GS Paper-1:Practice Mock Test 5

UPSC IAS Prelims Exam 2020: Mock Test Series UPSC IAS Preliminary Exam 2020: General Studies Paper-1 UPSC Civil Services Examination Prelims 2020 Mock Test for General Studies Paper-1, Practice Solved Test -20 2018 Prelims- 33+ questions asked from MYUPSC Test Series Programme 2019 Prelims- 40+ questions asked from MYUPSC Test Series Programme UPSC Civil Services Prelims Exam 2020 Test Series There are Full Length 60 Very High Quality Tests that match very UPSC standard (acknowledged by hundreds of toppers every year). 1. These 60 Tests are structured in such a way as to help you start from scratch and gradually gain advanced knowledge through self study using standard textbooks and multiple revisions. 2. First 10 Tests are based on all Important NCERT Textbooks (New NCERTs). 3. There will be full length REVISION TEST after every 5 Tests. This helps in timely revision of every important topic you have read, including current affairs, before you move on to new topics. 4. Every Test will cover Current Affairs comprehensively from May 1, 2019. This helps you read and revise current affairs from the beginning. 5. All tests will cover previous year question papers of UPSC civil services. NDA, CDS, IES, CAPF exams. This feature helps you understand the expectations of UPSC and prepare accordingly. 6. Every test will cover 10 percent of previous test's syllabus. This is to let you not forget what you have read for first test and thereafter. Helps you revise previous tests before the next test. 7. There will be section-wise analysis of your performance in each test. This helps you know where you need to put extra efforts to prepare well for your weakest areas. 8. Unlimited access to previous tests in the form of PDFs. This test series will seriously prepare you to tackle actual exam with full confidence. MYUPSC - UPSC CSP (2020) Test series will strategically provide its students with an in-depth coverage of the syllabus and scientifically designed revision plans covering the entire static and current portions (multiple times). With the help of guidance, we aim to make sure that our students are exam ready, with all the skills and tools needed to handle any surprise UPSC throws at them. UPSC IAS Prelims Exam 2020 Practice Solved Test Paper Unique Features of MYUPSC Prelims Test Series: 1. Comprehensive coverage of entire syllabus of UPSC CSP exam through UPSC standard MCQs 2. Sectional Tests have been designed in a manner that students can cover each subject comprehensively in sufficient time and can evaluate his/her performance through our tests 3. Strictly adhering to UPSC pattern, the nature of questions ranges from factual to conceptual, proportionally dividing in each of the Test Papers 4. Options of MCQs have also been arranged in such a manner that elimination tactics can be applied by students while solving questions 5. All tests will be conducted in same manner as in real examination hall which helps in better time management and prepare students to solve MCQs correctly under exam pressure Performance Analysis of aspirants, Section wise analysis, Difficulty Analysis, All India Rank, comparison with toppers, Integrated Score Card, Analysis of Mock Test papers based on difficulty level & nature of questions etc. will be provided to students. It will help in evaluating their performance and course correction.

Surveying Vol. I

UPSC IAS Prelims Exam 2020: Prelims Test Series 2018 Prelims- 33+ questions asked from MYUPSC Test Series Programme 2019 Prelims- 40+ questions asked from MYUPSC Test Series Programme There are Full Length 60 Very High Quality Tests that match very UPSC standard (acknowledged by hundreds of toppers every

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Careers Digest

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A Textbook of Strength of Materials

This text is meant to fill a long felt need for a comprehensive and authoritative book on heat and mass transfer for students of Mechanical/Chemical/Aeronautical/Production/ Metallurgical engineering. The dual objective of understanding the physical phenomena involved and the ability to formulate and solve typical problems by an average student has been kept in mind while writing this book. In this text, an effort has been made to identify the similarities in both qualitative and quantitative approach, between heat transfer and mass transfer. This gives a better understanding of the phenomena of mass transfer. The subject matter has been developed to a sufficiently advanced stage in a logical and coherent manner with neat illustrations along with an adequate number of solved examples. A large number of problems (with answers) at the end of each chapter assist in the pedagogy. The book has been appended with a set of selected MCQs. The role of experimentation in the teaching of Heat and Mass Transfer is well established. Properly designed experiments reinforce the teaching of basic principles more thoroughly. Keeping this in mind one full chapter comprising 12 typical experiments forms another special feature of this text. Contents: Basic Concepts Fundamental Equations of Conduction One-Dimensional Steady State Heat Conduction Multi-Dimensional Steady State Conduction Transient Heat Conduction Fundamentals of Convective Heat Transfer Forced Convection Systems Natural Convection Thermal Radiation - Basic Relations

Radiative Heat Exchange Between Surfaces Boiling and Condensation Heat Exchangers Diffusion Mass Transfer Convective Mass Transfer Experiments in Engineering Heat and Mass Transfer.

UPSC IAS Prelims 2020 GS Paper-1:Practice Mock Test 8

Basic Civil Engineering

The book 'SSC-JE 2019: Civil Engineering Previous Years Topicwise Objective Detailed Solutions with Theory' by IES Master has been structured in such a manner that it helps SSC-JE aspirants from CE branch develop the feel of subjects like RCC, Strength of Materials, Environmental Engineering, Soil Mechanics, etc. The previous years' (from 2004 to 2018) questions decoded in a Question-Answer format in this book not only give engineering students ample amount of relevant theory, but an extra theory along with reasoning for other given options. This masterpiece from IES Master's Research & Development team ensures that the level of preparedness of a SSC-JE aspirant matches exactly to that required in the actual SSC-JE exam. Thus far, and no further, the book leaves no stone unturned in its easy-to-understand language, optimized with fonts and layout that your eyes will surely relish. This book is also helpful for CE students aspiring for State Engineering Services, PSUs, RRB-JE, State PSUs, DMRC, LMRC, etc.

Pathfinder-Civil Services Main Examination

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Civil Engineering

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

UPSC IAS Prelims 2020 GS Paper-1:Practice Mock Test 4

This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- Magnetic field and Magnetic circuit Electromagnetic force and torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explanatory and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

Concrete Technology

The No. 1 Magazine for IAS Aspirants Since 1990

Basic Concepts of Electrical Engineering

This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments,

Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.

Pratiyogita Darpan

25 Years UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995-2019) 10th Edition

Electrical Engineering Essence of electricity, Conductors, Semiconductors and insulators (elementary treatment only); Electric field, electric current, Potential and potential difference, Electromotive force, Electric power, Ohm's law, Basic circuit components, Electromagnetism related laws, Magnetic field due to electric current flow, Force on a current carrying conductor placed in a magnetic field, Faradays laws of electromagnetic induction. Types of induced EMF's, Kirchhoff's laws, Simple problems. Network Analysis Basic definitions, Types of elements, types of sources, Resistive networks, Inductive networks, Capacitive networks, Series parallel circuits, Star delta and delta star transformation, Network theorems-Superposition, Thevenin's, Maximum power transfer theorems and simple problems. Magnetic Circuits Basic definitions, Analogy between electric and magnetic circuits, Magnetization characteristics of Ferro magnetic materials, Self inductance and mutual inductance, Energy in linear magnetic systems, Coils connected in series, Attracting force or electromagnets. Alternating Quantities Principle of ac voltages, Waveforms and basic definitions, Relationship between frequency, Speed and number of poles, Root mean square and average values of alternating currents and voltage, form factor and peak factor, Phasor representation of alternating quantities, The j operator and phasor algebra, analysis of ac circuits with single basic network element, single phase series circuits, Single phase parallel circuits, Single phase series parallel circuits, Power in ac circuits. Transformers Principles of operation, Constructional details, Ideal Transformer and Practical Transformer, Losses, Transformer Test, Efficiency and Regulation Calculations. Direct current machines Principle of operation of dc machines, Armature windings, E.M.F. equation in a dc machine, Torque production in a dc machine, Operation of a dc machine as a generator, Operation of a dc machine as a motor. A.C. Machines Three phase induction motor, principle of operation, Slip and rotor frequency, Torque (simple problems). Synchronous Machines Principle of operation, EMF equation (Simple problems on EMF). Synchronous motor principle and operation (Elementary treatment only) Basic Instrument Classification of instruments, Operating principles, Essential features of measuring instruments, Moving coil permanent magnet (PMMC) instruments, Moving Iron of Ammeters and Voltmeters (elementary treatment only).

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