

OR

- Q.3 (a)** List the various losses occurring in DC machine. Also derive the relationship between armature power developed (P_a) and the output power (P) for both- DC generator and DC motor. **07**
- (b)** A 40 Hz transformer is to be used on a 50 Hz system. Assuming the Steinmetz's coefficient as 1.6 and losses at lower frequency 1.2%, 0.7% and 0.5% for I^2R , hysteresis and eddy current respectively. Find (a) losses on 50 Hz for the same supply voltage and current (b) Output at 50 Hz for the same total losses as on 40 Hz. **07**

- Q.4 (a)** Estimate the leakage reactance of concentric winding in core type transformers clearly stating the assumptions used. **07**
- (b)** Calculate the diameter and length of armature for a 7.5 kW, 4 pole, 1000 r.p.m. 220 V shunt motor. Given: full load efficiency=0.83; maximum gap flux density=0.9 Wb/m²; specific electric loading=30,000 ampere conductors per meter; field form factor=0.7. Assume that the maximum efficiency occurs at full load and field current is 2.5% of rated current. The pole face is square. **07**

OR

- Q.4 (a)** With the help of neat sketch, explain the effect of armature reaction on air gap flux in case of DC machine. **07**
- Q.4 (b)** A 4 pole generator supplies a current of 140 A. It has 480 armature conductors (a) wave connected, (b) lap connected. The brushes are given an actual lead of 10°. Calculate the cross and demagnetizing mmf per pole in each case. The field winding is shunt connected and takes a current of 10 A, find the number of extra shunt field turns to neutralize the demagnetization. **07**

- Q.5 (a)** Describe the different methods adopted to reduce the effect of armature reaction in DC machine. **07**
- (b)** The following particulars refer to the shunt field coil for a 440 V, 6 pole, DC generator:
Mmf per pole=7000 A, depth of winding=50mm; length of inner turn=1.1m; length of outer turn=1.4m; loss radiated from outer surface excluding ends = 1400 W/m²; space factor=0.62; resistivity= 0.02 Ω/m and mm². Calculate (a) the diameter of wire (b) length of coil (c) number of turns and (d) exciting current. Assume a voltage drop of 20 % of terminal voltage across the field regulator. **07**

OR

- Q.5 (a)** State the guiding factors while selecting the no. of armature slots in DC machine. **07**
- (b)** An 11 kV, 25 Hz transformer has I^2R , hysteresis and eddy current losses 1.6, 0.6 and 0.4 percent of the output. What will be the percentage losses if the transformer is connected to 22 kV, 50 Hz supply assuming the full load current to remain the same? **07**

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Uday A. Bakshi, Late Ajay V. Bakshi, 2020-12-10 The importance of Electrical Circuit Analysis is well known in the various engineering fields The book provides comprehensive coverage of mesh and node analysis various network theorems analysis of first and second order networks using time and Laplace domain steady state analysis of a c circuits coupled circuits and dot conventions network functions resonance and two port network parameters The book starts with explaining the network simplification techniques including mesh analysis node analysis and source shifting Then the book explains the various network theorems and concept of duality The book also covers the solution of first and second order networks in time domain The sinusoidal steady state analysis of electrical circuits is also explained in the book The book incorporates the discussion of coupled circuits and dot conventions The Laplace transform plays an important role in the network analysis The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis The book includes the discussion of network functions of one and two port networks The book incorporates the detailed discussion of resonant circuits The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity It also derives the interrelationships between the two port network parameters The book uses plain and lucid language to explain each topic Each chapter gives the conceptual knowledge about the topic dividing it in various sections

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Teaching and Learning in a Digital World Michael E. Auer, David Guralnick, Istvan Simonics, 2018-02-09 This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning ICL2017 held in Budapest Hungary on 27-29 September 2017 The authors are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of technological developments and global markets and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general but especially in engineering education To face these current real world challenges higher education has to find innovative ways to quickly respond to them Since its inception in 1998 this conference has been devoted to new approaches in learning with a focus on collaborative learning Today the ICL conferences offer a forum for exchange concerning relevant trends and research results and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context

The Electrical Journal, 1918

Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 Aleksandar

Marković, Slađana Barjaktarović Rakočević, 2014-06-05

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Engineering Justice Jon A. Leydens, Juan C. Lucena, 2017-11-17 Shows how the engineering curriculum can be a site for rendering social justice visible in engineering for exploring complex socio technical interplays inherent in engineering practice and for enhancing teaching and learning Using social justice as a catalyst for curricular transformation Engineering Justice presents an examination of how politics culture and other social issues are inherent in the practice of engineering It aims to align engineering curricula with socially just outcomes increase enrollment among underrepresented groups and lessen lingering gender class and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities This book is meant to transform the way educators think about engineering curricula through creating or transforming existing courses to attract retain and motivate engineering students to become professionals who enact engineering for social justice Engineering Justice offers thought provoking chapters on why social justice is inherent yet often invisible in engineering education and practice engineering design for social justice social justice in the engineering sciences social justice in humanities and social science courses for engineers and transforming engineering education and practice In addition this book Provides a transformative framework for

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Engineering Education and Technological / Professional Learning Clara Viegas, Arcelina Marques, Gustavo R.

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Table of Contents Sample Question Paper Fourth Semester Electrical Engineering

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

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