



Please Answer All Questions

Q.1 (13 Marks)

- Explain the losses distribution in DC generators. (5 Marks)
- A 220 V dc, shunt motor runs at 500 rpm when the armature current is 50 A. Calculate the speed if the torque is doubled. Given that $R_a = 0.2$ ohm. (8 Marks)

Q.2 (13 Marks)

- Compare using sketch between 2-wires and 3-wires DC distribution systems. (5 Marks)
- Obtain the equivalent circuit of a 200/400 V, 50 Hz, single phase transformer from the following test data:
O.C. test: 200 V, 0.7 A, 70 W – on LV side, (8 Marks)
S.C. test: 15 V, 10 A, 85 W – on HV side.

Q.3 (12 Marks)

- State the advantages and disadvantages of electromagnetic and digital relays. (4 Marks)
- The power input to the rotor of 440 V, 50 Hz, 6 pole, 3-phase, induction motor is 80 kW. The rotor electromotive force is observed to make 100 complete alterations per minute. Calculate the slip, the rotor speed, and rotor copper losses per phase. (8 Marks)

Q.4 (12 Marks)

- Explain the conditions for parallel operation of synchronous generators. (4 Marks)
- Two tram cars (A & B) 2 km and 6 km away from a substation return 40 A and 20 A respectively to the rails. The substation voltage is 600 V dc. The resistance of trolley wire is 0.25 ohm/km and that of track is 0.03 ohm/km. Calculate the voltage across each tram car. (8 Marks)

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Jin-Ying Zhang



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Table of Contents Aptitude Test For Electrical Engineers Questions And Answers In

1. Understanding the eBook Aptitude Test For Electrical Engineers Questions And Answers In
 - The Rise of Digital Reading Aptitude Test For Electrical Engineers Questions And Answers In
 - Advantages of eBooks Over Traditional Books
2. Identifying Aptitude Test For Electrical Engineers Questions And Answers In
 - 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 Aptitude Test For Electrical Engineers Questions And Answers In

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Aptitude Test For Electrical Engineers Questions And Answers In
 - Personalized Recommendations
 - Aptitude Test For Electrical Engineers Questions And Answers In User Reviews and Ratings
 - Aptitude Test For Electrical Engineers Questions And Answers In and Bestseller Lists
- 5. Accessing Aptitude Test For Electrical Engineers Questions And Answers In Free and Paid eBooks
 - Aptitude Test For Electrical Engineers Questions And Answers In Public Domain eBooks
 - Aptitude Test For Electrical Engineers Questions And Answers In eBook Subscription Services
 - Aptitude Test For Electrical Engineers Questions And Answers In Budget-Friendly Options
- 6. Navigating Aptitude Test For Electrical Engineers Questions And Answers In eBook Formats
 - ePub, PDF, MOBI, and More
 - Aptitude Test For Electrical Engineers Questions And Answers In Compatibility with Devices
 - Aptitude Test For Electrical Engineers Questions And Answers In Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aptitude Test For Electrical Engineers Questions And Answers In
 - Highlighting and Note-Taking Aptitude Test For Electrical Engineers Questions And Answers In
 - Interactive Elements Aptitude Test For Electrical Engineers Questions And Answers In
- 8. Staying Engaged with Aptitude Test For Electrical Engineers Questions And Answers In
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aptitude Test For Electrical Engineers Questions And Answers In
- 9. Balancing eBooks and Physical Books Aptitude Test For Electrical Engineers Questions And Answers In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aptitude Test For Electrical Engineers Questions And Answers In
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aptitude Test For Electrical Engineers Questions And Answers In
 - Setting Reading Goals Aptitude Test For Electrical Engineers Questions And Answers In

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aptitude Test For Electrical Engineers Questions And Answers In
 - Fact-Checking eBook Content of Aptitude Test For Electrical Engineers Questions And Answers In
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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