

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012****Subject code: 162003****Date: 04/01/2013****Subject Name: Control of Electric Drives****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Explain the generalized block diagram of Electric Drive and state advantage of it. **07**
- (b)** Explain the Four quadrant operation of Electrical Drive. **07**
- Q.2 (a)** Explain the output voltage, output current, source current and thyristor current waveforms for type-C chopper for its operation in second quadrant. **07**
- (b)** A motor drives two loads. One has rotational motion. It is coupled to the motor through a reduction gear with a=0.1 and efficiency of 90%. The load has a moment of inertia of 10 kg-m² and a torque of 10 N-m. Other load has translational motion and consists of 1000kg weight to be lifted up at an uniform speed of 1.5m/s. Coupling between this load and the motor has an efficiency of 85%. Motor has an inertia of 0.2kg-m² and runs at a constant speed of 1420 rpm. Determine equivalent inertia referred to the motor shaft and power developed by the motor. **07**
- OR**
- (b)** Explain the field control of DC shunt motor in details. **07**
- Q.3 (a)** Describe the principle of step-up choppers. Derive an expression for the average output voltage in terms of input voltage and duty cycle. State the assumption made. **07**
- (b)** Explain the Four quadrant Operation of Chopper circuit **07**
- OR**
- Q.3 (a)** Derive the Steady state Time Domain analysis of Type-A chopper and derive the maximum and minimum value of load current **07**
- (b)** A step up chopper has input voltage of 220 V and output voltage of 660 V. If the conducting time of thyristor chopper is 100 μ s, compute the pulse width of output voltage. In case output voltage pulse width is halved for constant frequency operation, find the average value of new output voltage. **07**
- Q.4 (a)** Explain Single phase Half wave uncontrolled rectifier Circuit with R-L load and draw necessary waveform with performance parameter. **07**
- (b)** Explain the single phase fully controlled bridge converter with R-L-E load draw the necessary waveform with conduction table. **07**
- OR**
- Q.4 (a)** Explain the operation and Analysis of Three phase uncontrolled rectifier with R-L load with necessary waveform and conduction table. **07**
- Q.4 (b)** Explain Single phase half wave controlled rectifier circuit with purely resistive load and also derive the performance parameter. **07**
- Q.5 (a)** Describe the operation of a single stack variable reluctance stepper motor. **07**
- (b)** Explain the methods for controlling the single phase ac induction motor with diagram. **07**
- OR**
- Q.5 (a)** Explain the methods for controlling the universal motor. **07**
- (b)** Derive the Equivalent values of Drive parameters with Rotational load. **07**

Mg University Question Paper For Ec010504 Electric Drives And Control

WJ Hussar



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Table of Contents Mg University Question Paper For Ec010504 Electric Drives And Control

1. Understanding the eBook Mg University Question Paper For Ec010504 Electric Drives And Control
 - The Rise of Digital Reading Mg University Question Paper For Ec010504 Electric Drives And Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Mg University Question Paper For Ec010504 Electric Drives And Control
 - 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 Mg University Question Paper For Ec010504 Electric Drives And Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mg University Question Paper For Ec010504 Electric Drives And Control
 - Personalized Recommendations
 - Mg University Question Paper For Ec010504 Electric Drives And Control User Reviews and Ratings
 - Mg University Question Paper For Ec010504 Electric Drives And Control and Bestseller Lists
5. Accessing Mg University Question Paper For Ec010504 Electric Drives And Control Free and Paid eBooks
 - Mg University Question Paper For Ec010504 Electric Drives And Control Public Domain eBooks
 - Mg University Question Paper For Ec010504 Electric Drives And Control eBook Subscription Services
 - Mg University Question Paper For Ec010504 Electric Drives And Control Budget-Friendly Options

6. Navigating Mg University Question Paper For Ec010504 Electric Drives And Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Mg University Question Paper For Ec010504 Electric Drives And Control Compatibility with Devices
 - Mg University Question Paper For Ec010504 Electric Drives And Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mg University Question Paper For Ec010504 Electric Drives And Control
 - Highlighting and Note-Taking Mg University Question Paper For Ec010504 Electric Drives And Control
 - Interactive Elements Mg University Question Paper For Ec010504 Electric Drives And Control
8. Staying Engaged with Mg University Question Paper For Ec010504 Electric Drives And Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mg University Question Paper For Ec010504 Electric Drives And Control
9. Balancing eBooks and Physical Books Mg University Question Paper For Ec010504 Electric Drives And Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mg University Question Paper For Ec010504 Electric Drives And Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mg University Question Paper For Ec010504 Electric Drives And Control
 - Setting Reading Goals Mg University Question Paper For Ec010504 Electric Drives And Control
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mg University Question Paper For Ec010504 Electric Drives And Control
 - Fact-Checking eBook Content of Mg University Question Paper For Ec010504 Electric Drives And Control
 - 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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