



## NATURAL SCIENCE MARKING GUIDELINES

**April 2009**

ELECTROTECHNICS N5  
808005

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ELECTROTECHNICS N5

### QUESTION 1

- 1.1 By reversing either the field  $\downarrow$  or armature connections.  $\checkmark$  (2)
- 1.2 They are placed in slots in the pole shoes.  $\checkmark$  They are connected in series with the armature windings.  $\checkmark$  (2)
- 1.3  $V = 250 \text{ V}$   $P = 44 \text{ kW}$   $N = 1500 \text{ rpm}$   $\eta = 85\% = 0.85$   
 $R_a = 0.32$   $I_f = 1.8 \text{ A}$   $I_a R_a = 3.5 \text{ V}$
- 1.3.1  $\text{Input} = \frac{\text{Output}}{\eta} = \frac{44}{0.85} = 51.765 \text{ kW } \checkmark$   
 $I_L = \frac{P}{V} = \frac{51765}{250} \text{ A} = 207.06 \text{ A } \checkmark$  (2)
- 1.3.2  $\text{Output} = \frac{2\pi N T}{60}$   
 $44000 = \frac{2\pi \times 1500 T}{60} \checkmark$   
 $T = \frac{44000 \times 60}{2\pi \times 1500} \checkmark$   
 $= 280.26 \text{ Nm } \checkmark$  (2)
- 1.3.3 Starting current  $= 1.75 (\text{full load}) = 1.75 \times 207.06 = 362.35 \text{ A } \checkmark$   
 $I_a = 1.8 = 362.35 + I_a$   $= 364.15 \text{ A } \checkmark$   
 $V = E + V_b + V_a (\text{at start})$   $E = 0$   $V_b = I_a (R_a + x)$   
 $250 = 0 + 3.5 + 364.15 (0.32 + x) \checkmark$   
 $x = \frac{250 - 115.33}{136.9}$   
 $= 2.55 \text{ ohms } \checkmark$  (2)

# Electrotechnics N5 Question Papers And Answers

**Chao Zhang**



## Electrotechnics N5 Question Papers And Answers:

**Consumers Index to Product Evaluations and Information Sources** ,1985      *Resources in Education* ,1970  
Research in Education ,1970      **Journal of Research of the National Bureau of Standards** United States. National  
Bureau of Standards,1988      **Journal of Research of the National Bureau of Standards** ,1984      *Classed Subject*  
*Catalog* Engineering Societies Library,1963      Engineering Science N4 ,1999\*      *The Telegraphic Journal and Electrical*  
*Review* ,1886      *Bulletin of the Institution of Engineers (India)*. Institution of Engineers (India),1980      **Government**  
**Reports Announcements & Index** ,1989      University of California Union Catalog of Monographs Cataloged by the Nine  
Campuses from 1963 Through 1967: Authors & titles University of California (System). Institute of Library  
Research,University of California, Berkeley,1972      **Government Reports Announcements** ,1971      **Reference Book**  
**Review Index, 1973-1975** M. Balachandran,1980      Bibliography of Scientific and Industrial Reports ,1968-04      **U.S.**  
**Government Research & Development Reports** ,1968-04      Current Index to Journals in Education ,1980      *Index to*  
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## **Table of Contents Electrotechnics N5 Question Papers And Answers**

1. Understanding the eBook Electrotechnics N5 Question Papers And Answers
  - The Rise of Digital Reading Electrotechnics N5 Question Papers And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnics N5 Question Papers And Answers
  - 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 Electrotechnics N5 Question Papers And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnics N5 Question Papers And Answers
  - Personalized Recommendations
  - Electrotechnics N5 Question Papers And Answers User Reviews and Ratings
  - Electrotechnics N5 Question Papers And Answers and Bestseller Lists

5. Accessing Electrotechnics N5 Question Papers And Answers Free and Paid eBooks
  - Electrotechnics N5 Question Papers And Answers Public Domain eBooks
  - Electrotechnics N5 Question Papers And Answers eBook Subscription Services
  - Electrotechnics N5 Question Papers And Answers Budget-Friendly Options
6. Navigating Electrotechnics N5 Question Papers And Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Electrotechnics N5 Question Papers And Answers Compatibility with Devices
  - Electrotechnics N5 Question Papers And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electrotechnics N5 Question Papers And Answers
  - Highlighting and Note-Taking Electrotechnics N5 Question Papers And Answers
  - Interactive Elements Electrotechnics N5 Question Papers And Answers
8. Staying Engaged with Electrotechnics N5 Question Papers And Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electrotechnics N5 Question Papers And Answers
9. Balancing eBooks and Physical Books Electrotechnics N5 Question Papers And Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electrotechnics N5 Question Papers And Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electrotechnics N5 Question Papers And Answers
  - Setting Reading Goals Electrotechnics N5 Question Papers And Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrotechnics N5 Question Papers And Answers
  - Fact-Checking eBook Content of Electrotechnics N5 Question Papers And Answers
  - 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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