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T630(E)N24)1

## QUESTION 1

Choose the correct word(s) from those given in brackets. Write only the word(s) next to the question number (1.1 – 1.5) in the ANSWER BOOK.

- 1.1 Pole pitch is the (displacement, distance, metres) between the centres of the poles. (2)
- 1.2 When the ampere turns of the two windings oppose each other, the machine is said to be (cumulatively compounded, compound connected, differently compounded). (2)
- 1.3 The voltage drop in the load characteristics of a separately excited generator is due to (residual magnetism, armature reaction, hysteresis loss). (2)
- 1.4 (Wave wound, Lap wound, Armature winding) is for heavy-current machines. (2)
- 1.5 It has its field windings connected in series with the armature (series connected, compound connected, self-excited connected). (2)
- [10]

## QUESTION 2

- 2.1 Define commutation in direct current machine. (3)
- 2.2 Explain by means of a neat sketch the meaning of compensating winding and show clearly in the same sketch the relative direction of the current through the compensating windings and the armature windings. (5)
- 2.3 State ONE use application for a separately excited generator. (1)
- [10]

## QUESTION 3

- 3.1 Briefly state TWO variables that influences the size of the back EMF in an electrical motor. (2)
- 3.2 The total torque exerted on an 8 pole motor is 1,22 kiloNewton metres. The armature has 768 conductors and carries a current of 0,5 kiloamperes.
- Determine the following:
- 3.2.1 The flux per pole when it is connected in the lap wound (3)
- 3.2.2 The flux per pole when it is connected in the wave wound (3)
- 3.3 State TWO losses which torque has to overcome. (2)
- [10]

$$T \propto \Phi I_a$$

PTO

# Past Year Papers Of N3 Instrumentation

**RC Schank**



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### **Table of Contents Past Year Papers Of N3 Instrumentation**

1. Understanding the eBook Past Year Papers Of N3 Instrumentation
  - The Rise of Digital Reading Past Year Papers Of N3 Instrumentation
  - Advantages of eBooks Over Traditional Books
2. Identifying Past Year Papers Of N3 Instrumentation
  - 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 Past Year Papers Of N3 Instrumentation
  - User-Friendly Interface
4. Exploring eBook Recommendations from Past Year Papers Of N3 Instrumentation
  - Personalized Recommendations
  - Past Year Papers Of N3 Instrumentation User Reviews and Ratings
  - Past Year Papers Of N3 Instrumentation and Bestseller Lists

5. Accessing Past Year Papers Of N3 Instrumentation Free and Paid eBooks
  - Past Year Papers Of N3 Instrumentation Public Domain eBooks
  - Past Year Papers Of N3 Instrumentation eBook Subscription Services
  - Past Year Papers Of N3 Instrumentation Budget-Friendly Options
6. Navigating Past Year Papers Of N3 Instrumentation eBook Formats
  - ePub, PDF, MOBI, and More
  - Past Year Papers Of N3 Instrumentation Compatibility with Devices
  - Past Year Papers Of N3 Instrumentation Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Past Year Papers Of N3 Instrumentation
  - Highlighting and Note-Taking Past Year Papers Of N3 Instrumentation
  - Interactive Elements Past Year Papers Of N3 Instrumentation
8. Staying Engaged with Past Year Papers Of N3 Instrumentation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Past Year Papers Of N3 Instrumentation
9. Balancing eBooks and Physical Books Past Year Papers Of N3 Instrumentation
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Past Year Papers Of N3 Instrumentation
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Past Year Papers Of N3 Instrumentation
  - Setting Reading Goals Past Year Papers Of N3 Instrumentation
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Past Year Papers Of N3 Instrumentation
  - Fact-Checking eBook Content of Past Year Papers Of N3 Instrumentation
  - 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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