

## QUESTION 8

8.1 State TWO purposes of oil in which the transformer is immersed. (2)

8.2 A 300 kVA three-phase transformer is connected in star-delta and the winding ratio is 1.15. The secondary voltage is 400 V.

Determine the following:

8.2.1 The supply line voltage (4)

8.2.2 The load phase current (4)

[10]

## QUESTION 9

9.1 Briefly explain, with the aid of neat, labelled sketches, what is meant by:

9.1.1 Early current dumping (2)

9.1.2 Air dumping (2)

9.2 Draw a full circuit diagram/sketch where dynamometer instrument is used as an ammeter. (2)

9.3 A moving-coil voltmeter has a movement of 5 ohms and gives full-scale deflection when 12 mA flows through it. It is required to modify the instrument to give full-scale deflection at 250 V. Draw the circuit diagram of the modification required and calculate the value of ADDITIONAL component required. (4)

[10]

## QUESTION 10

10.1 State FOUR uses of the cathode-ray oscilloscope. (4)

10.2 The following electronic components are given:

One centre tap transformer, two diodes, a load resistor and other components

10.2.1 Design a circuit diagram using the above-mentioned components. (3)

10.2.2 Name the circuit diagram. (1)

10.2.3 What is the function of the other component? (2)

[10]

TOTAL 100

Electro-Technology 113 August 2016

Module 2

## Question 1

a. i. Wave wound - for high voltage machines  $\pm$   
ii. Lap wound - for heavy current machines  $\pm$

b. Pole Pitch - is the angular distance in degrees between the centre of the next pole or magnetic  $\pm$

c. Increase the field flux  $\pm$   
• Brush shifting  $\pm$   
• Interpoles  $\pm$   
• Compensating windings  $\pm$

## Question 2

a. Separate excitation - is when the excitation current required by the field coils or windings is obtained from an external DC source e.g. battery or DC generator. The field coil and armature are completely separated from the compound  $\pm$

Applications - in automatic motor control systems and in the Ward-Leonard motor generator system.  $\pm$

b. i.  $I_a = 40$   $I_f = 2.5$



$$R_{fb} = V$$

$$R_{fb} = \frac{V}{I_f}$$

$$= \frac{250}{2.5}$$

$$= 100 \Omega$$

$$R_a = V - I_a R_a$$

$$R_a = \frac{V - I_a R_a}{I_a}$$

$$R_a = \frac{250 - 2.5 \times 100}{40}$$

$$R_a = 0.25 \Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding  $\pm$

2

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## **Table of Contents Electro Tech 2014 Question Paper N3**

1. Understanding the eBook Electro Tech 2014 Question Paper N3
  - The Rise of Digital Reading Electro Tech 2014 Question Paper N3
  - Advantages of eBooks Over Traditional Books
2. Identifying Electro Tech 2014 Question Paper N3
  - 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 Electro Tech 2014 Question Paper N3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electro Tech 2014 Question Paper N3

- Personalized Recommendations
- Electro Tech 2014 Question Paper N3 User Reviews and Ratings
- Electro Tech 2014 Question Paper N3 and Bestseller Lists
- 5. Accessing Electro Tech 2014 Question Paper N3 Free and Paid eBooks
  - Electro Tech 2014 Question Paper N3 Public Domain eBooks
  - Electro Tech 2014 Question Paper N3 eBook Subscription Services
  - Electro Tech 2014 Question Paper N3 Budget-Friendly Options
- 6. Navigating Electro Tech 2014 Question Paper N3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Electro Tech 2014 Question Paper N3 Compatibility with Devices
  - Electro Tech 2014 Question Paper N3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electro Tech 2014 Question Paper N3
  - Highlighting and Note-Taking Electro Tech 2014 Question Paper N3
  - Interactive Elements Electro Tech 2014 Question Paper N3
- 8. Staying Engaged with Electro Tech 2014 Question Paper N3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electro Tech 2014 Question Paper N3
- 9. Balancing eBooks and Physical Books Electro Tech 2014 Question Paper N3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electro Tech 2014 Question Paper N3
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Electro Tech 2014 Question Paper N3
  - Setting Reading Goals Electro Tech 2014 Question Paper N3
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electro Tech 2014 Question Paper N3

- Fact-Checking eBook Content of Electro Tech 2014 Question Paper N3
  - 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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