

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

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Module 2

Question 1

a. 1 Wave wound - for high voltage machines
2 Lap wound - for heavy current machines

b. Pole Pitch - is the angular distance in degrees between the centre of the next pole or interpole.

c. 1 Increase the field flux.
2 Brush shifting
3 Interpoles
4 Compensating windings

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.

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

b. 1



$$R_{ab} = Y$$

$$R_{ab} = \frac{250V}{12A}$$

$$= 2083.33 \Omega$$

$$2. R = V - I_a R_a$$

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

$$R_a = \frac{250 - 210}{12A}$$

$$R_a = 3.33 \Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding

10

2

Electro Technology Question Paper

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Table of Contents Electro Technology Question Paper

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

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