

## 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.



$$R_{th} = Y$$

$$R_{th} = \frac{4 \times 21}{4 + 21}$$

$$R_{th} = 3.69 \Omega$$

$$R_{th} = 100 \Omega$$

$$E = V + I_a R_a$$

$$E = \frac{E_a \times Y}{I_a}$$

$$E = \frac{210 \times 21}{4 + 21} = 210 \text{ V}$$

$$R_a = 0.2 \Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding

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### **Table of Contents N3 Electrotechnology Previous Questions Papers**

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

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