

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
ii. Lap wound - for heavy current machines

1

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

2

c. Increase the field flux.
• Brush shifting ✓
• Interpoles ✓
• Compensating windings ✓

1

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.

2

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

2

b. i. $I_a = 40\text{ A}$ $I_f = 2.5\text{ A}$



$$R_{ab} = V$$

$$= \frac{250\text{ V}}{40\text{ A}}$$

$$= 6.25\text{ }\Omega$$

$$R = V - I_a R_a$$

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

$$R_a = \frac{250 - 40 \times 6.25}{40}$$

$$R_a = 0.75\text{ }\Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding

10

2

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Table of Contents N3 Exam Question Papers

1. Understanding the eBook N3 Exam Question Papers
 - The Rise of Digital Reading N3 Exam Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N3 Exam Question 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 Exam Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Exam Question Papers
 - Personalized Recommendations

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