

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

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 interpole. 2

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

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. $I_a = 40$ $I_f = 2.5$



$$R_{ab} = V$$

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

$$R_{ab} = \frac{250}{40}$$

$$R_{ab} = 6.25 \Omega$$

$$R = V - I_a R_a$$

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

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

$$R_a = 0 \Omega$$

$$R_a = 0.200 \Omega$$

c. TWO VARIABLE FACTORS - Armature and field winding \checkmark

2

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