

Unit III: Assessment: Q & A (Selected)

Lecture 40

1. Define the following terms wrt to three phase system:

- i) Phase Sequence
- ii) Phase Voltage
- iii) Phase Current
- iv) Line Voltage
- v) Line Current
- vi) Balanced System

Solution:



1. Phase Sequence: The sequence in which the voltages in the three phases reach maximum positive value is called the Phase sequence .

2. Phase Voltage: The Voltage induced in each winding is called the phase voltage.

3. Phase Current: The current flowing through each winding is called the phase current.

4. Line Voltage: The Voltage available between pair of terminals or lines is called the Line voltage.

5. Line Current: The current flowing through each line is called the Line Current.

6. Balanced System :A three-phase system is said to be balanced if the

(a) voltages in the three phases are equal in magnitude and differ in phase from one another by 120°

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(b) currents in the three phases are equal in magnitude and differ in phase from one another by 120°

(c) loads connected across the three phases are identical, i.e., all the loads have the same magnitude and angle.

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