

# Interview Questions

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» **Three-Phase Systems in Power Applications Online  
Test – Multiple Choice Questions and Answers**

## Three-Phase Systems in Power Applications Online Test – Multiple Choice Questions and Answers

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of power measurement  
control & protection products

Congratulations – you have completed **Three-Phase Systems in Power Applications Online T**.

You scored **2** points out of **10** points total.

Your answers are shown below:

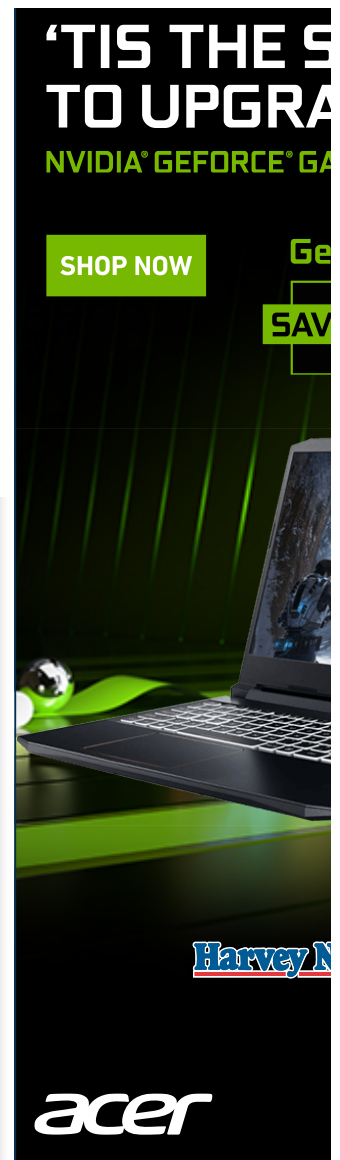
1. In a certain Y-Y system, the source phase currents each have a magnitude of 9 A. The magnitude of each load current for a balanced load condition is

- **3A**
- 12A
- 9A
- 27A

2. If in a Y-connected ac generator, each phase voltage has a magnitude of 90 VRMS, what is the magnitude of each line voltage?

- 0 V
- 90 V
- **156 V**
- 180 V

3. In a Y-Y source/load configuration, the



- phase current, the line current, and the load current are  $120^\circ$  out of phase
- phase current, the line current, and the load current are all equal in each phase
- **line current and the load current are in phase, and both are out of phase with the phase current**
- phase current and the line current are in phase, and both are  $120^\circ$  out of phase with the load current

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4. In a Y-connected circuit, the magnitude of each line current is

- one-third the phase current
- **three times the corresponding phase current**
- equal to the corresponding phase current
- zero

---

5. In a Y-connected circuit, between each line voltage and the nearest phase voltage, there is a phase angle of

- **$30^\circ$**
- $0^\circ$
- $60^\circ$
- $90^\circ$

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6. Polyphase generators produce simultaneous multiple sinusoidal voltages that are separated by

- certain constant voltages
- certain constant frequencies
- **certain constant currents**
- certain constant phase angles

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7. A constant load power means a uniform conversion of

- electrical to mechanical energy
- current to voltage
- **mechanical to electrical energy**

- voltage to current

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8. In a three-phase system, the voltages are separated by

- $45^\circ$
- **$90^\circ$**
- $120^\circ$
- $180^\circ$

---

9. In a certain three-wire Y-connected generator, the phase voltages are 2 kV. The magnitudes of the line voltages are

- **2,000 V**
- 666 V
- 6,000 V
- 3,464 V

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10. In a three-phase system, when the loads are perfectly balanced, the neutral current is

- zero
- **two-thirds of maximum**
- one-third of maximum
- at maximum

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### 3 THOUGHTS ON “THREE-PHASE SYSTEMS IN POWER APPLICATIONS ONLINE TEST – MULTIPLE CHOICE QUESTIONS AND ANSWERS”



**Lalam M. Naidu**

MAY 31, 2016 AT 11:52 AM

Nice work..

[REPLY](#)



**deb**

MAY 21, 2016 AT 8:36 AM

Good

[REPLY](#)



**yogu**

MAY 3, 2016 AT 9:38 AM

gooddd

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