

# ELECTRICAL ENGINEERING

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**Q1.** Crawling in a 3- $\Phi$ SCIM is due to \_\_\_\_\_.

- Unbalanced supply voltage
- 5th space harmonic of air gap field
- 7th space harmonic of air gap field
- None of these

**Q2.** What is the time period of a triangular wave having a frequency of 250 Hz?

- 0.004 sec
- 0.0004 sec
- 0.04 sec
- 0.4 sec

**Q3.** Two sinusoidal signals having the same amplitude and frequency are applied to X and Y inputs of a CRO. The observed lissajous figure is a straight line. What will be the phase shift between the two signals?

- Zero
- Either  $90^\circ$  or  $270^\circ$
- Either zero or  $180^\circ$
- $90^\circ$

**Q4.** Match the following.

(a) AC to DC	(i) Chopper
(b) AC to AC	(ii) Controlled Rectifier
(c) DC to DC	(iii) Cycloconverter

- a-(i); b-(ii); c-(iii)
- a-(ii); b-(iii); c-(i)
- a-(iii); b-(ii); c-(i)
- a-(iii); b-(i); c-(ii)

**Q5.** Phase margin of a system is used to specify which of the following?

- Absolute stability
- Relative stability
- Frequency response
- Time response