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Alternating Current and Voltage Online Test – Multiple Choice Questions and Answers

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Congratulations – you have completed **Alternating Current and Voltage Online Test Set 1**.

You scored **1** points out of **10** points total.

Your answers are shown below:

1. A single-phase induction motor

- **operates at a fixed speed**
- is less reliable than a three-phase synchronous motor
- is self-starting

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- none of these

2. What is the average voltage when a rectangular wave's base line voltage is 20 V, its peak-to-peak voltage is 50 V, and its duty cycle is 20%?

- **26 V**
- 30 V
- 40 V
- 45 V

3. In both induction and synchronous ac motors

- the operating speed is very steady
- the stator magnetic field rotates
- **the "squirrel cage" forms the rotor**
- the stator magnetic field is stationary

4. The effective value of a sine wave is equal to

- 0.636 of peak voltage
- **0.707 of peak voltage**
- $\sin 45^\circ$ of peak voltage
- both 0.707 of peak voltage and $\sin 45^\circ$ of peak voltage

5. What is the instantaneous peak voltage at 250° on a 6 V peak sine wave?

- **+5.64 V**
- -26.13 V
- -5.64 V
- +26.13 V

6. A pulse waveform has a high time of 8 ms and a pulse width of 32 ms. The duty cycle is

- 1%

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- **25%**
- 50%
- 100%

7. What is the fourth harmonic of a fundamental frequency of 400 Hz?

- 1.6 kHz
- **4 Hz**
- 4 kHz
- 100 Hz

8. A half-cycle average voltage of 12 V is equal to what rms voltage?

- **8.48 V**
- 7.64 V
- 18.84 V
- 13.33 V

9. Most practical alternators generate electricity from

- a permanent magnet rotating within a varying electromagnetic field
- **a coil rotating within a magnetic field**
- a magnetic field rotating around fixed windings
- none of the above

10. A rectangular wave that has a duty cycle of 50% could be called a

- triangular wave
 - square wave
 - **sawtooth wave**
 - "c" wave
-

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