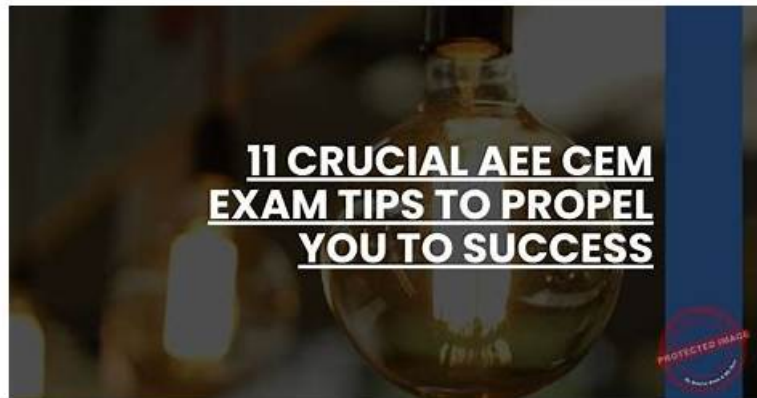


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## AEE Certified Energy Manager (CEM) Sample Questions (Q143-Q148):

### NEW QUESTION # 143

Using the lumen method, calculate the number of luminaires (fixtures) required to light a room to 200 lux.

Each luminaire has 2 fluorescent lamps, 3,000 lumens per lamp. The room is 20 meters by 30 meters. The total light loss factor (LLF) is 0.70 and the luminaire coefficient of utilization (CU) is 0.80.

- A. 24 luminaires
- B. 36 luminaires
- C. 12 luminaires
- D. 48 luminaires
- E. 60 luminaires

**Answer: A**

### NEW QUESTION # 144

A 100-kW packaged engine-generator combined heat and power (CHP) system has the specifications listed below. What is the annual purchased fuel cost for the CHP system, assuming that the CHP is electrical output limited and operates at full electrical load

all year?

CHP Equipment Specifications	Additional Information
Electrical output: 100 kW	Unit cost: \$3.80/GJ
Electrical efficiency: 28%	Annual operating hours: 8,000 h
Total CHP efficiency: 75%	

SELECT THE CORRECT ANSWER

- A. \$43,776/yr
- B. \$52,222/yr
- C. \$58,300/yr
- D. \$32,668/yr
- E. \$28,900/yr

**Answer: A**

#### NEW QUESTION # 145

What term describes the difference between the control signal value and the set point?

- A. Dead band
- B. Dead time
- C. Differential
- D. Cut off
- E. Error or offset

**Answer: E**

#### NEW QUESTION # 146

Which type of single-phase alternating-current motor has the highest efficiency?

- A. Shaded-pole motor
- B. Electronic-commutated motor
- C. Permanent split-capacitor motor

**Answer: B**

#### NEW QUESTION # 147

According to the institute of Electrical and Electronic Engineers (IEEE) standard 519, "Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems," the maximum total harmonic distortion (THD) for general low voltage systems less than 600 volts) should be:

SELECT THE CORRECT ANSWER

- A. Greater than 1%
- B. Less than 5%
- C. Less than 10%
- D. Less than 20%
- E. Less than 1%

**Answer: B**

Explanation:

The Institute of Electrical and Electronics Engineers (IEEE) Standard 519, titled "Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems," sets forth guidelines to maintain the quality of electrical power by limiting harmonic distortions. According to IEEE 519, for general low-voltage systems (defined as systems with a voltage less than 600 volts), the Total Harmonic Distortion (THD) of the voltage waveform should not exceed 5%. This threshold ensures the reliable operation of electrical equipment and minimizes potential issues such as overheating or malfunctioning caused by excessive harmonics. Therefore, the correct answer is B. Less than 5%.

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