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CEM Exam Outline

Content Domains	Percentage of Examination
1. Codes and Standards	3%-5%
2. Energy Accounting and Economics	6%-10%
3. Energy Audits and Economics	8%-12%
4. Electrical Systems	9%-13%
5. HVAC Systems	9%-13%
6. Industrial Systems	6%-8%
7. Building Envelope	3%-5%
8. CHP Systems and Renewable Energy	4%-6%
9. Fuel Supply and Pricing	2%-4%
10. Building Automation and Control Systems	7%-11%
11. Thermal Energy Storage Systems	2%-4%
12. Lighting Systems	6%-8%
13. Boiler and Steam Systems	3%-5%
14. Maintenance and Commissioning	8%-12%
15. Energy Savings Performance Contracting and Measurement and Verification	3%-5%

Time limit: 4 hours

Total questions: 130

Question format: Multiple-choice, true-or-false

Delivery format: Paper-and-pencil or computer-based

Mometrix TEST PREPARATION

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AEE Certified Energy Manager (CEM) Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

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

Answer: A

NEW QUESTION # 51

Which of the following best describes a dead band in controls?

- A. A value that has been assigned to a controlled variable
- B. The difference between a sensor variable and its set point
- C. A range around a set point with no change in state even though there is a change in sensor input
- D. The delay in response of a system to a controlled change
- E. A system which changes the output of a controller based on how fast a variable is moving from or to a set point

Answer: C

NEW QUESTION # 52

For general indoor residential lighting applications, which lamp would you recommend to replace an 11 watt CFL with in order to provide the most appropriate illumination with the highest efficacy?

SELECT THE CORRECT ANSWER

- A. 10 watt light-emitting diode
- B. 5 watt low-pressure sodium
- C. 4 watt incandescent
- D. 7 watt light-emitting diode
- E. 36 watt fluorescent tube with electronic ballast

Answer: D

NEW QUESTION # 53

An outdoor parking area has 25 light poles. Each pole has a 420 Watt (ballast included) high-pressure sodium (HPS) luminaire. The parking area lights are illuminated 4,500 hours per year and the electricity cost is \$0.08

/kWh. What is the annual energy cost reduction if each luminaire is replaced with a 220-Watt (driver included) LED luminaire?

- A. \$1,500/yr
- B. \$2,600/yr
- C. \$2,200/yr
- D. \$1,200/yr
- E. \$1,800/yr

Answer: E

Explanation:

To determine the annual energy cost savings from switching to LED luminaires:

Step 1: Compute Energy Consumption for HPS Lights

$$\text{Power per pole} = 420 \text{ W} = 0.42 \text{ kW}$$

$$\text{Total Power} = 25 \times 0.42 = 10.5 \text{ kW}$$

$$\text{Annual Energy Use} = 10.5 \times 4,500 = 47,250 \text{ kWh}$$

$$\text{Annual Cost} = 47,250 \times 0.08 = 3,780 \text{ USD}$$

Step 2: Compute Energy Consumption for LED Lights

$$\text{Power per pole} = 220 \text{ W} = 0.22 \text{ kW}$$

$$\text{Total Power} = 25 \times 0.22 = 5.5 \text{ kW}$$

$$\text{Annual Energy Use} = 5.5 \times 4,500 = 24,750 \text{ kWh}$$

$$\text{Annual Cost} = 24,750 \times 0.08 = 1,980 \text{ USD}$$

Step 3: Compute Cost Savings

$$\text{Savings} = 3,780 - 1,980 = 1,800 \text{ USD/year}$$

Thus, the correct answer is C. \$1,800/yr.

NEW QUESTION # 54

A facility has the thermal cooling load profile shown in the table below. The utility rate tariff has an on-peak time-of-use billing period that begins at 10:00 a.m. and ends at 7:00 p.m. Calculate the storage capacity required for a load-shifting operating strategy, to make sure that no thermal cooling is generated by the chiller during the on-peak utility rate period.

Time of Day	Facility Design Cooling Load	Time of Day	Facility Design Cooling Load
Midnight to 1:00 a.m.	2 GJ	Noon to 1:00 p.m.	8 GJ
1:00 a.m. to 2:00 a.m.	2 GJ	1:00 p.m. to 2:00 p.m.	9 GJ
2:00 a.m. to 3:00 a.m.	2 GJ	2:00 p.m. to 3:00 p.m.	9 GJ
3:00 a.m. to 4:00 a.m.	2 GJ	3:00 p.m. to 4:00 p.m.	9 GJ
4:00 a.m. to 5:00 a.m.	2 GJ	4:00 p.m. to 5:00 p.m.	9 GJ
5:00 a.m. to 6:00 a.m.	2 GJ	5:00 p.m. to 6:00 p.m.	8 GJ
6:00 a.m. to 7:00 a.m.	4 GJ	6:00 p.m. to 7:00 p.m.	6 GJ
7:00 a.m. to 8:00 a.m.	4 GJ	7:00 p.m. to 8:00 p.m.	6 GJ
8:00 a.m. to 9:00 a.m.	6 GJ	8:00 p.m. to 9:00 p.m.	4 GJ
9:00 a.m. to 10:00 a.m.	6 GJ	9:00 p.m. to 10:00 p.m.	4 GJ
10:00 a.m. to 11:00 a.m.	6 GJ	10:00 p.m. to 11:00 p.m.	2 GJ
11:00 a.m. to Noon	8 GJ	11:00 p.m. to Midnight	2 GJ

- A. 84 GJ
- B. 48 GJ
- C. 66 GJ
- D. 72 GJ

Answer: C

NEW QUESTION # 55

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