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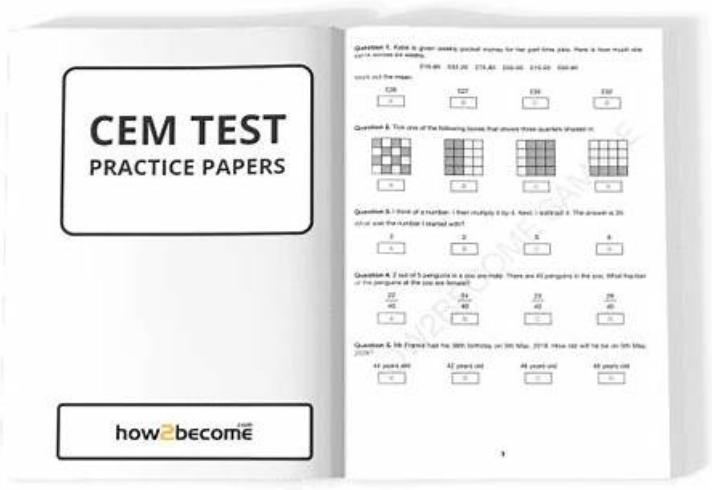

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AEE Certified Energy Manager (CEM) Sample Questions (Q18-Q23):

NEW QUESTION # 18
An air-conditioning unit delivers 10,000 kJ/h (thermal cooling). The equipment uses single-phase electrical power at 220-volt and 5.25 amps with a power factor of 100%. Calculate the coefficient of performance (COP).

- A. 16.1
- B. 6.2
- C. 13.2
- D. 3.2
- E. 2.4

Answer: D

Explanation:
A screenshot of a computer AI-generated content may be incorrect.

The Coefficient of Performance (COP) is given by:

$$COP = \frac{\text{Cooling Output (kJ/h)}}{\text{Electrical Input Power (kJ/h)}}$$

Step 1: Convert Electrical Input to Power in kW

- Voltage: 220 V
- Current: 5.25 A
- Power Factor: 100% (or 1.0)

$$\text{Electrical Power} = V \times I \times PF$$

$$= 220 \times 5.25 \times 1.0 = 1,155 \text{ W} = 1.155 \text{ kW}$$

Step 2: Convert Electrical Power to kJ/h

$$1.155 \text{ kW} \times 3600 \text{ s/h} = 4,158 \text{ kJ/h}$$

Step 3: Calculate COP

$$COP = \frac{10,000}{4,158} = 2.4$$

Thus, the correct answer is B. 3.2.

NEW QUESTION # 19
A fully-loaded heat pump unit delivers 36-kW thermal heating with a power draw of 12-kW electric. What is the coefficient of performance (COP) at full load?

- A. 3.0
- B. 4.0
- C. 2.0
- D. 6.0
- E. 5.0

Answer: B

NEW QUESTION # 20
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. $2,200/yr
- C. $1,200/yr
- D. $1,800/yr
- E. $2,600/yr

Answer: D

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

A table with numbers and symbols AI-generated content may be incorrect.

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 # 21
You can buy air compressor A for $15,000 or air compressor B for $6,000. Compressor A will cost $10,000 per year to operate. Compressor B will cost $11,500 per year to operate. If both air compressors have a 10- year life and your required return on investment is 12%, which air compressor has the lowest total life-cycle cost?

- A. Both air compressors have the same life-cycle cost
- B. Compressor B
- C. Compressor A

Answer: B

NEW QUESTION # 22
In a warehouse, lights are mounted 4 meters above the floor. This provides an average light level of 150 lux.
To increase the light level without installing more lights or higher Wattage lights, you lower the light fixtures with pendants so that the lights are located 3.25 meters above the floor. Calculate the new average light level on the floor.

- A. 176 lux
- B. 150 lux
- C. 166 lux
- D. 227 lux
- E. 276 lux

Answer: A

NEW QUESTION # 23
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