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## AEE CEM exam Dumps [2026] to Achieve Higher Results

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## AEE Certified Energy Manager (CEM) Sample Questions (Q39-Q44):

### NEW QUESTION # 39

A refrigerant-to-water heat exchanger can be added to air-conditioning equipment to heat water using the waste heat in the vapor compression refrigerant cycle. Where is this type of heat exchanger located in the refrigerant loop?

- A. After the expansion valve, before the evaporator coil
- B. After the condenser coil, before the thermal expansion valve
- C. After the evaporator coil, before the compressor
- D. After the compressor, before the condenser coil

Answer: D

### NEW QUESTION # 40

Natural gas costs \$4.80/GJ. How much does it cost to heat 500 liters of water from 18°C to 50°C using a natural gas water heater

with an efficiency of 85%? [The efficiency and fuel price are both based on HHV. The specific heat of water (C) is 4.2 kJ/kg-°C.]

- A. \$1.44
- B. \$1.25
- C. \$0.38
- **D. \$0.76**
- E. \$0.25

**Answer: D**

Explanation:

To calculate the cost of heating water using natural gas:

Step 1: Compute Energy Required to Heat the Water

Given:

\* Mass of water = 500 L = 500 kg

\* Temperature rise (#T) = 50°C - 18°C = 32°C

\* Specific heat of water (Cp) = 4.2 kJ/kg-°C

Energy Required (Q) =  $m \times C_p \times \#T$

=  $500 \times 4.2 \times 32$

= 67,200 kJ = 67.2 MJ

**Step 2: Convert Energy Requirement to GJ**

$$67.2 \text{ MJ} = 0.0672 \text{ GJ}$$

**Step 3: Adjust for Water Heater Efficiency (85%)**

$$\text{Input Energy Required} = \frac{0.0672}{0.85} = 0.0791 \text{ GJ}$$

**Step 4: Compute Cost**

$$\text{Total Cost} = 0.0791 \times 4.80 = 0.76 \text{ USD}$$

Thus, the correct answer is **C. \$0.76**.

#### NEW QUESTION # 41

Which of the following is the primary benefit of integrating energy management with a Building Automation System (BAS) in a commercial facility?

SELECT THE CORRECT ANSWER

- A. Enhanced tenant satisfaction through manual lighting control in individual zones
- **B. Increased energy efficiency by enabling real-time monitoring and automated adjustments to HVAC, lighting, and other systems**
- C. Simplified maintenance by eliminating the need for system diagnostics and fault detection
- D. Reduced initial installation costs compared to traditional control systems

**Answer: B**

#### NEW QUESTION # 42

What is the Energy Use index (EUI) for a 4,000 m<sup>2</sup> building that uses the following amounts of energy each year?

Natural gas	1,600 GJ/yr
Fuel oil (39,000 kJ/liter)	19,000 liters/yr
Electricity	300,000 kWh/yr

- A. 625,600 kJ/m<sup>2</sup>-yr
- B. 3,220,800 kg/m<sup>2</sup>-yr
- C. 855,250 kJ/m<sup>2</sup>-yr
- D. 403,311 kJ/m<sup>2</sup>-yr
- E. 1,612,000 kJ/m<sup>2</sup>-yr

**Answer: A**

**Explanation:**

The Energy Use Index (EUI) is calculated as the total annual energy consumption divided by the building area.

**Step 1: Convert Energy Units to kJ**

- Natural gas:

$$1,600 \text{ GJ} = 1,600 \times 10^6 = 1,600,000,000 \text{ kJ}$$

- Fuel oil:

$$19,000 \text{ liters} \times 39,000 \text{ kJ/liter} = 741,000,000 \text{ kJ}$$

- Electricity:

$$1 \text{ kWh} = 3,600 \text{ kJ}$$

$$300,000 \text{ kWh} \times 3,600 = 1,080,000,000 \text{ kJ}$$

**Step 2: Calculate Total Energy Use**

$$1,600,000,000 + 741,000,000 + 1,080,000,000 = 3,421,000,000 \text{ kJ}$$

**Step 3: Calculate EUI**

$$\begin{aligned} \text{EUI} &= \frac{3,421,000,000}{4,000} \\ &= 625,600 \text{ kJ/m}^2\text{-yr} \end{aligned}$$

Thus, the correct answer is B. 625.600 kJ/m<sup>2</sup>-vr.

**NEW QUESTION # 43**

How can commissioning reduce the life-cycle cost to owners and operators?

- A. Improve the satisfaction of building occupants
- B. Improve the performance of energy systems
- C. All of the above
- D. Reduce the cost of change orders during construction
- E. Improve the effectiveness of operations and maintenance

**Answer: C**

**NEW QUESTION # 44**

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