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## AEE Certified Energy Manager (CEM) Sample Questions (Q79-Q84):

### NEW QUESTION # 79

Electricity costs \$0.10 per kWh. If an electric water heater has an efficiency of 95%. What is the equivalent price of natural gas per gigajoule for a natural gas water heater? The natural gas water heater has an efficiency of 95% based on lower-heating value.

[Natural gas has an energy content of 36.400 MJ/m<sup>3</sup> (higher-heating value) and 32.760 MJ/m<sup>3</sup> (lower-heating value).] SELECT THE CORRECT ANSWER

- A. \$21 / GJ
- B. \$15/GJ
- C. \$33 / GJ
- D. \$25 / GJ

**Answer: A**

Explanation:

To determine the equivalent price of natural gas per gigajoule (GJ) for a natural gas water heater, we compare the cost of electricity and natural gas on an energy-equivalent basis.

Step 1: Convert Electricity Cost to Cost per GJ

\* Electricity cost: \$0.10/kWh

\* 1 GJ = 277.8 kWh

$$\text{Cost per GJ for electricity} = 0.10 \times 277.8 = 27.78 \text{ USD/GJ}$$

#### Step 2: Adjust for Efficiency

- Electric water heater efficiency: 95% or 0.95
- Natural gas water heater efficiency: 95% or 0.95 (based on LHV)

$$\text{Adjusted energy cost for electricity} = \frac{27.78}{0.95} = 29.24 \text{ USD/GJ}$$

#### Step 3: Convert to Equivalent Natural Gas Cost

- LHV of natural gas: 32.76 MJ/m<sup>3</sup>
- Convert MJ to GJ: 1 GJ = 1000 MJ, so
  - 1 m<sup>3</sup> of natural gas = 0.03276 GJ
  - 1 GJ = 1 / 0.03276 = 30.52 m<sup>3</sup> of natural gas

$$\text{Equivalent price of natural gas} = \frac{29.24}{1.4} = 20.89 \approx 21 \text{ USD/GJ}$$

Thus, the correct answer is B. \$21/GJ.

### NEW QUESTION # 80

What type of heat transfer is reduced by adding insulation to the inside surface of a wall?

- A. Conduction
- B. Convection
- C. Radiation

**Answer: A**

### NEW QUESTION # 81

A heat pump water heater has an annual average coefficient of performance (COP) of 2.1 and heats water from 15°C to 50°C. Hot water use is 100 liters per day, 365 days/yr. The electricity cost is \$0.10/kWh. What is the annual water heating cost? (The specific

heat of water (C) is 4.2 kJ/kg-°C.)

- A. \$44.88/year
- B. \$70.97/year
- C. \$64.66/year
- D. \$52.20/year
- E. \$88.29/year

**Answer: C**

#### NEW QUESTION # 82

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. 6.0
- C. 5.0
- D. 4.0
- E. 2.0

**Answer: D**

#### NEW QUESTION # 83

Infiltration (inward air leakage) in a building is dependent on several factors. Which of the following is least likely to affect or influence infiltration in a building?

- A. Building height
- B. Fuel type used for heating and cooling
- C. Poor or missing weatherstripping
- D. Outside air temperature
- E. Outside air wind speed

**Answer: B**

#### NEW QUESTION # 84

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