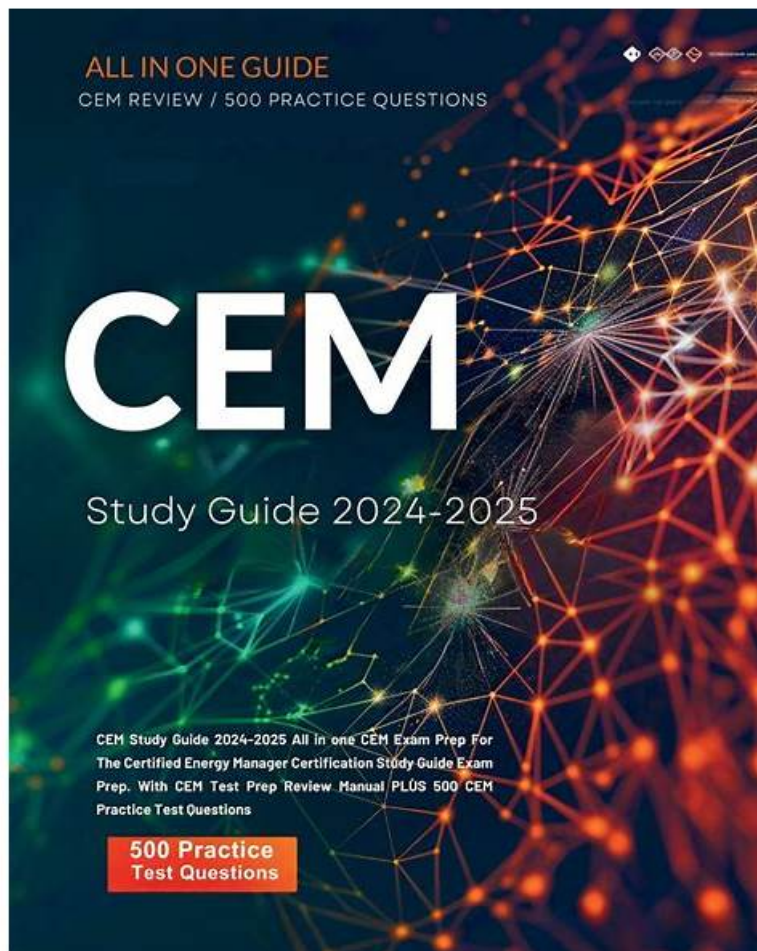


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## AEE Certified Energy Manager (CEM) Sample Questions (Q79-Q84):

**NEW QUESTION # 79**

An air-conditioning system at full load is rated at 70-kW (thermal cooling) and has a coefficient of performance (COP) of 4.1. What is the electrical load at full load?

- A. 35.0 kW
- B. 70.0 kW
- C. 23.3 kW
- D. 17.1 kW
- E. 46.7 kW

**Answer: C**

**NEW QUESTION # 80**

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

**Answer: E**

**NEW QUESTION # 81**

A cooling tower is delivering water to a chilled-water plant. The cooling tower outlet temperature has a 6°C approach temperature to the ambient air, wet-bulb temperature. The outside air conditions are 20°C dry bulb, 60% relative humidity. Using the psychrometric chart, at what temperature can the cooling tower deliver water to the chilled-water plant?

- A. 17°C
- B. 25°C
- C. 13°C
- D. 21°C

**Answer: A**

**NEW QUESTION # 82**

A 50-Hz alternating current (AC) induction motor has 3 pole pairs (6 poles). What is the synchronous speed of the motor?

- A. 1,000 rpm
- B. 750 rpm
- C. 600 rpm
- D. 1,500 rpm

**Answer: D**

**NEW QUESTION # 83**

Why do electric utility companies transmit power at high voltages?

SELECT THE CORRECT ANSWER

- A. Higher voltages are safer
- B. Higher voltages are more stable
- C. Transmission power losses ( $I^2R$ ) are less
- D. Electrical frequency is more stable

**Answer: C**

Explanation:

Electric utility companies transmit power at high voltages primarily to reduce transmission power losses, which are proportional to the square of the current ( $I^2$ ) multiplied by the resistance ( $R$ ) of the transmission lines. This relationship is expressed by the formula for power loss:  $P_{\text{loss}} = I^2R$ .

Key Points:

\* Power Loss and Current Relationship: Power losses in transmission lines are directly proportional to the square of the current flowing through them. Reducing the current decreases these losses significantly.

\* High Voltage Transmission: By increasing the transmission voltage, the current required to deliver the same amount of power decreases. This is because power ( $P$ ) is the product of voltage ( $V$ ) and current ( $I$ ):  $P = VI$ . For a given power level, increasing voltage allows for a corresponding decrease in current.

\* Reduced  $I^2R$  Losses: Lower current results in reduced  $I^2R$  losses, enhancing the efficiency of power transmission over long distances.

Conclusion:

Transmitting power at high voltages minimizes transmission losses, making it the most efficient method for long-distance electrical power delivery. Therefore, the correct answer is C. Transmission power losses ( $I^2R$ ) are less.

## NEW QUESTION # 84

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