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## AEE Certified Energy Manager (CEM) Sample Questions (Q106-Q111):

### NEW QUESTION # 106

Why do electric utility companies transmit power at high voltages?  
SELECT THE CORRECT ANSWER

- A. Higher voltages are safer
- B. Electrical frequency is more stable
- C. Transmission power losses ( $I^2R$ ) are less
- D. Higher voltages are 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<sup>2</sup>R Losses: Lower current results in reduced I<sup>2</sup>R 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<sup>2</sup>R) are less.

#### NEW QUESTION # 107

Which of the following statements best describe Demand Control Ventilation (DVC) in Building Automation Systems?

- A. It satisfies indoor ventilation rates by preconditioning outdoor air with the exhaust air to decrease energy cost during cold, warm, or humid weather
- B. It's a building standard for enclosed spaces in which biological, chemical, and physical contaminants are considered to meet thermal comfort requirements
- C. It's an active evaluation of outdoor and indoor space conditions to determine the amount of thermal, mechanical and natural conditioning that is required
- D. It's a prescriptive procedure in which outdoor air intake rates are calculated based on the energy cost method that compares a proposed building design to a base annual energy cost design

Answer: C

#### NEW QUESTION # 108

If outside air has a temperature of 30°C dry bulb and 20°C wet bulb, what is the dew point temperature?

- A. 30°C
- B. 20°C
- C. 15°C
- D. 25°C

Answer: B

#### NEW QUESTION # 109

The International Performance Measurement and Verification Protocol (IPMVP) has how many categories (method options) to determine the performance of an energy- or water-consuming system?

- A. 3 Options
- B. 4 Options
- C. 2 Options
- D. 5 Options
- E. 6 Options

Answer: B

#### NEW QUESTION # 110

What is the purpose of top (or skimming) blowdown in a steam boiler?

- A. To flush out the boiler room drain system
- B. To reduce the buildup of feedwater chemicals in the boiler
- C. To reduce the buildup of sediment in the boiler
- D. To dilute the level of impurities in the boiler water thus allowing the addition of cleaner make up water

Answer: D

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