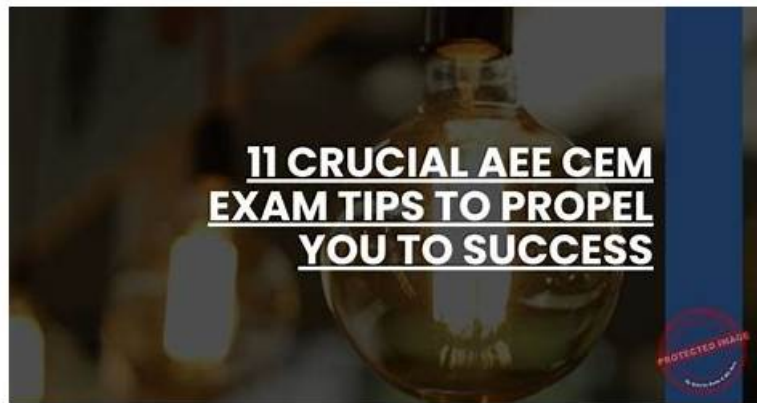


# AEE CEM Test Preparation & CEM Exam PDF



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### AEE Certified Energy Manager (CEM) Sample Questions (Q124-Q129):

#### NEW QUESTION # 124

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

Answer: C

#### NEW QUESTION # 125

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

**Answer: D**

#### **NEW QUESTION # 126**

The temperature in an unconditioned mechanical room is found to typically be around 23°C warmer than ambient (outside) air. If the air intake of an air compressor located in the mechanical room is routed through a nearby wall so that the cooler outside air is fed directly to the air compressor's intake, the compressor's energy requirement will now be expected to:

SELECT THE CORRECT ANSWER

- A. Increase by 3.8%
- B. Increase by 7.6%
- **C. Decrease by 3.8%**
- D. Remain the same
- E. Decrease by 7.6%

**Answer: C**

#### **NEW QUESTION # 127**

A desk lamp is located inside a windowless office. The office is heated during the winter and cooled during the summer. When the lamp is switched on, how much of the energy consumed by the lamp becomes heat in the office space?

- **A. 100%**
- B. 80%
- C. 25%
- D. 120%

**Answer: A**

Explanation:

\* All electrical energy consumed by the lamp is converted into heat within the space, either as direct heat or as waste heat from the light source.

\* In a windowless office, no energy escapes as light. The light energy that is emitted eventually turns into heat through absorption by surfaces.

Thus, the correct answer is C. 100%.

#### **NEW QUESTION # 128**

A cooling tower delivers water to a chilled-water plant at 21°C. The outside ambient air conditions are 19°C dry bulb, 50% relative humidity. Using the psychrometric chart, what is the approach temperature of the cooling tower outlet water temperature to the ambient air wet-bulb temperature?

SELECT THE CORRECT ANSWER

- **A. 8°C**
- B. 6°C
- C. 10°C
- D. 4°C

**Answer: A**

