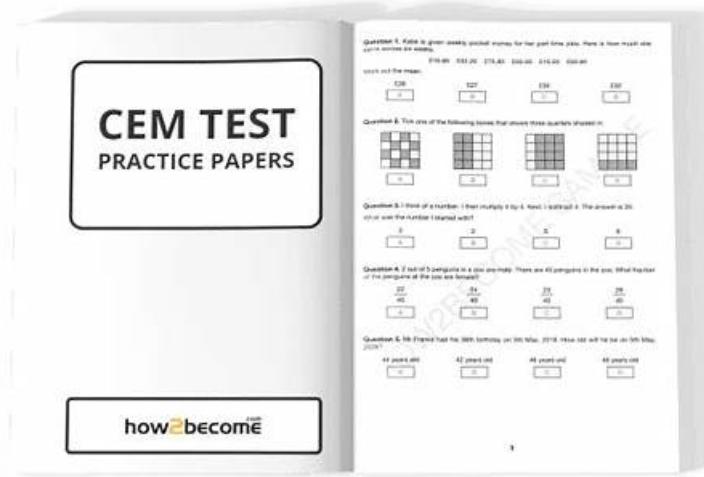


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AEE Certified Energy Manager (CEM) Sample Questions (Q83-Q88):

NEW QUESTION # 83

Thermal scans of electrical equipment are useful for:

- A. Measuring the load on a refrigerant system
- B. Reading current carrying capacity of installed conductors
- **C. Locating a loose electrical connection**
- D. Locating areas of high power factor

Answer: C

Explanation:

Step 1: Purpose of Thermal Scans

Thermal scans (infrared thermography) detect temperature variations in electrical components.

* Loose connections increase resistance # cause overheating, which is visible in thermal scans.

Step 2: Analysis of Each Option

- * A. Locating areas of high power factor#Incorrect#Power factor is measured with power meters.
 - * B. Reading current-carrying capacity of conductors#Incorrect#Measured using ammeters and engineering data.
 - * C. Locating a loose electrical connection#Correct#Loose connections cause heat buildup, easily detected with thermal scans.
 - * D. Measuring the load on a refrigerant system#Incorrect#Refrigerant loads are measured using pressure sensors and flow meters.
- Thus, the correct answer is C. Locating a loose electrical connection.

NEW QUESTION # 84

A controller has a signal output that can range from 4 to 20 mA (milli-amperes). The controller regulates the output temperature from a three-way mixing valve from 5°C to 15°C. What is the control gain?

- A. 0.8
- B. 1.2
- **C. 0.6**
- D. 1.4
- E. 1.6

Answer: C

NEW QUESTION # 85

According to the Institute of Electrical and Electronic Engineers (IEEE) standard 519, "Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems," the maximum total harmonic distortion (THD) for general low voltage systems less than 600 volts should be:

SELECT THE CORRECT ANSWER

- A. Greater than 1%
- B. Less than 1%
- C. Less than 20%
- **D. Less than 5%**
- E. Less than 10%

Answer: D

Explanation:

The Institute of Electrical and Electronics Engineers (IEEE) Standard 519, titled "Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems," sets forth guidelines to maintain the quality of electrical power by limiting harmonic distortions. According to IEEE 519, for general low-voltage systems (defined as systems with a voltage less than 600 volts), the Total Harmonic Distortion (THD) of the voltage waveform should not exceed 5%. This threshold ensures the reliable operation of electrical equipment and minimizes potential issues such as overheating or malfunctioning caused by excessive harmonics.

Therefore, the correct answer is C. Less than 5%.

NEW QUESTION # 86

What is the main reason for using instrumentation in energy audits?

- **A. Determine energy flows**
- B. Support the local economy
- C. Validate utility energy bills
- D. Save energy

Answer: A

Explanation:

Instrumentation in energy audits serves multiple functions, but the primary reason is to determine energy flows.

* Measuring Energy Flows:

* Instrumentation helps quantify energy use in different systems, such as electricity, HVAC, and industrial processes.

* It helps identify where energy is used, lost, or wasted.

- * Supporting Energy Conservation Efforts:
 - * By measuring energy flows, auditors can identify inefficiencies and recommend solutions.
 - * Other Options Analysis:
 - * Saving energy (A): A result of energy audits, not the main purpose.
 - * Validating utility bills (C): Important but secondary to understanding energy flows.
 - * Supporting the local economy (D): Not relevant.
- Thus, the correct answer is B. Determine energy flows.

NEW QUESTION # 87

What is a common cause of poor power quality?

- A. Electronic equipment, such as personal computers
- B. Partially loaded induction motors
- C. Natural gas turbine power generation by utilities
- D. Synchronous motors
- E. Incandescent lighting

Answer: A

NEW QUESTION # 88

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