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AEE Certified Energy Manager (CEM) Sample Questions (Q88-Q93):

NEW QUESTION # 88

Which of the following statements regarding refrigerants is NOT correct?

SELECT THE CORRECT ANSWER

- A. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact
- B. R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential
- C. R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential
- D. R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact
- E. R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications

Answer: A

Explanation:

Understanding the environmental impacts of various refrigerants is crucial for energy managers. Let's analyze each statement: en.wikipedia.org A). R-407C is a blended Hydro Fluoro Carbon or near Azeotropic mixture, and can be used as a replacement for R-22 in commercial applications:

This statement is correct. R-407C is a blend of HFCs designed to replace R-22 in air conditioning systems.

B). R-11 and R-12 are Chloro Fluoro Carbons with significant ozone depleting potential:

This is correct. R-11 and R-12 are CFCs known for their high ozone depletion potential.

C). R-1234yf is a Hydro Fluoro Olefin with zero ozone depleting potential, and little global warming potential:

Correct. R-1234yf is an HFO with negligible ozone depletion and low global warming potential.

D). R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact:

This statement is incorrect. R-22 is a Hydrochlorofluorocarbon (HCFC), not a Hydro Chloro Carbon. While it does have ozone-depleting potential, its global warming potential is considered moderate, not significant.

E). R-32 and R-134a are Hydro Fluoro Carbons with zero ozone depleting potential, and significant global warming impact:

This is correct. Both R-32 and R-134a are HFCs with no ozone depletion potential but have considerable global warming potential.

Conclusion:

The incorrect statement is D. R-22 is a Hydro Chloro Carbon with significant ozone depleting potential and significant global warming impact. Therefore, the correct answer is D.

NEW QUESTION # 89

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 20%
- C. Less than 5%
- D. Less than 10%
- E. Less than 1%

Answer: C

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 # 90

Calculate the monthly electric bill for a customer that used 400 kW and 75,000 kwh during one month. Use the following declining block structure for a monthly bill:

SELECT THE CORRECT ANSWER

- A. \$3,280
- B. \$4, 580
- C. \$7,850
- D. \$12,500
- E. \$9,660

Answer: E

Explanation:

We need to calculate the monthly electric bill based on the given pricing structure.

Step 1: Identify Charges from the Table

- * Customer charge: \$50/month
- * Peak demand charge: \$10/kW-month
- * Electric consumption charges:
- * First 25,000 kWh @ \$0.06/kWh
- * Excess (75,000 - 25,000) = 50,000 kWh @ \$0.05/kWh
- * Tax: 20% of total

NEW QUESTION # 91

What is the best type of heat exchanger to recover and transfer latent heat energy from one air stream to another?

- A. Ceramic recuperator
- B. Desiccant heat wheel
- C. Heat pipe
- D. Shell and tube
- E. Run-around system

Answer: B

NEW QUESTION # 92

When comparing two similar facilities, you see that the facility with newer, higher-efficiency equipment has a higher energy-use index [EUI] (kJ/m²-yr). What might be the cause?

- A. The facility with the lower EUI is in need of commissioning
- B. The facility with the higher efficiency equipment should have a higher EUI
- C. The facility with the higher EUI is in need of commissioning
- D. The facility with the lower EUI requires a performance contract
- E. The facility with the higher EUI requires a supervisory control and data acquisition (SCADA) system

Answer: C

NEW QUESTION # 93

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