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AEE Certified Energy Manager (CEM) Sample Questions (Q23-Q28):

NEW QUESTION # 23

What is the purpose of monitoring energy consumption?

SELECT THE CORRECT ANSWER

- A. To support analysis of energy information
- B. To establish when and why there is a deviation in energy consumption patterns
- C. To establish a basis of management control
- D. All of the above

Answer: D

Explanation:

Monitoring energy consumption is a critical component of effective energy management. It serves multiple purposes that collectively enhance an organization's ability to control energy use, identify inefficiencies, and implement improvements. These purposes include:

* **Establishing a Basis of Management Control:**By systematically tracking energy consumption, organizations create a foundation for managing energy use effectively. This data enables the setting of benchmarks and performance indicators, facilitating informed decision-making and strategic planning.

* **Identifying Deviations in Energy Consumption Patterns:**Continuous monitoring allows for the detection of anomalies or unexpected changes in energy usage. Recognizing when and why these deviations occur is essential for diagnosing potential issues, such as equipment malfunctions or operational inefficiencies, and addressing them promptly.

* **Supporting Analysis of Energy Information:**Comprehensive energy data collection supports detailed analysis, aiding in understanding consumption trends, evaluating the impact of energy conservation measures, and identifying opportunities for further efficiency improvements.

Given that monitoring energy consumption fulfills all the above functions, the correct answer is D. All of the above.

NEW QUESTION # 24

Which of the following is NOT a renewable-energy resource?

SELECT THE CORRECT ANSWER

- A. Saw grass
- B. Geothermal heat
- C. Crop residue
- **D. Shale gas**
- E. Ocean waves

Answer: D

Explanation:

Renewable energy resources are naturally replenished on a human timescale. Let's evaluate each option:

A). Saw grass:

A biomass resource, renewable through regrowth.

B). Shale gas:

A fossil fuel extracted from shale formations, non-renewable.

C). Geothermal heat:

Energy from Earth's internal heat, renewable.

D). Ocean waves:

Mechanical energy from ocean surface waves, renewable.

E). Crop residue:

Organic materials from agriculture, renewable.

Conclusion:

Shale gas is not a renewable energy resource. Therefore, the correct answer is B.

NEW QUESTION # 25

An air-conditioning unit delivers 10,000 kJ/h (thermal cooling). The equipment uses single-phase electrical power at 220-volt and 5.25 amps with a power factor of 100%. Calculate the coefficient of performance (COP).

- A. 13.2
- B. 2.4
- C. 6.2
- D. 16.1
- **E. 3.2**

Answer: E

Explanation:

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The Coefficient of Performance (COP) is given by:

$$COP = \frac{\text{Cooling Output (kJ/h)}}{\text{Electrical Input Power (kJ/h)}}$$

Step 1: Convert Electrical Input to Power in kW

- Voltage: 220 V
- Current: 5.25 A
- Power Factor: 100% (or 1.0)

$$\begin{aligned}\text{Electrical Power} &= V \times I \times PF \\ &= 220 \times 5.25 \times 1.0 = 1,155 \text{ W} = 1.155 \text{ kW}\end{aligned}$$

Step 2: Convert Electrical Power to kJ/h

$$1.155 \text{ kW} \times 3600 \text{ s/h} = 4,158 \text{ kJ/h}$$

Step 3: Calculate COP

$$COP = \frac{10,000}{4,158} = 2.4$$

Thus, the correct answer is B. 3.2.



NEW QUESTION # 26

A large office building is entirely fitted out with ten-thousand new T5 fluorescent lamps today, which will be operational for 2,500 hours per year. The lamps are supposed to last 17,860 hours. How many months from today will be the best schedule for group relamping (total replacement of all the T5 fluorescent lamps in the building)?

- A. 85.7 months
- B. 68 months
- C. 5 months
- D. 60 months

Answer: A

NEW QUESTION # 27

When should commissioning be included in the design and construction of a facility?

- A. When construction is finalized
- B. When installation of the energy systems begins
- C. When the design is finalized
- D. When the occupancy permit is accepted
- E. When the planning process begins

Answer: E

NEW QUESTION # 28

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