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CEM EXAM 1 QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

Scientific question - ANSWER no such thing as "the scientific method"

can be answered by doing experiments, making observations, taking measurements in a replicable way

What do scientists do? - ANSWER 1. ask questions

2. design experiments

3. gather and analyze data

4. make claims (based on data and evidence)

5. Develop expectations, models and theories about how the universe behaves how it does

CLAIM, EVIDENCE, REASONING - ANSWER you need evidence if you are going to make a claim and you need to support that with data

1. CLAIM- the target of your explanation

2. EVIDENCE - scientific principle you are using to support your claim

3. REASONING- that connects your claim to evidence

ex. claim if I add milk to hot coffee the temp will decrease

scientific model - ANSWER can be a drawing or a graph or a diagram or equation physical or mental

used to help make sense or predict what will happen

they make testable, quantifiable predictions

and this can help us explain WHY

a scientific theory - ANSWER based on observations/ experiments

makes testable predictions

may change over time as new evidence becomes available

is falsifiable

restricted to natural phenomenon

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Manager (CEM) CEM exam questions change.

AEE Certified Energy Manager (CEM) Sample Questions (Q26-Q31):

NEW QUESTION # 26

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 sediment in the boiler
- C. To reduce the buildup of feedwater chemicals in the boiler
- D. To dilute the level of impurities in the boiler water thus allowing the addition of cleaner make up water

Answer: C

NEW QUESTION # 27

What is the purpose of monitoring energy consumption?

SELECT THE CORRECT ANSWER

- A. To establish when and why there is a deviation in energy consumption patterns
- B. To establish a basis of management control
- C. To support analysis of energy information
- 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 # 28

Which of the following International Performance Measurement and Verification Protocol (IPMVP) options would you use to verify annual energy savings in a project that upgraded lighting in a large manufacturing plant?

- A. Option A - Retrofit isolation: key parameter measurement
- B. Option D - Calibrated simulation
- C. Option B - Retrofit isolation: all parameter measurement
- D. Option E - Stipulated savings
- E. Option C - Whole facility measurement

Answer: C

NEW QUESTION # 29

A new energy-efficient boiler costs \$60,890 to buy and install. The new energy-efficient boiler will save \$15,400 per year and last for 20 years. What is the internal rate of return (IRR) of the project?

- A. 15%
- B. 25%

- C. 30%
- D. 10%
- E. 20%

Answer: E

NEW QUESTION # 30

For general indoor residential lighting applications, which lamp would you recommend to replace an 11 watt CFL with in order to provide the most appropriate illumination with the highest efficacy?

SELECT THE CORRECT ANSWER

- A. 7 watt light-emitting diode
- B. 4 watt incandescent
- C. 10 watt light-emitting diode
- D. 5 watt low-pressure sodium
- E. 36 watt fluorescent tube with electronic ballast

Answer: A

NEW QUESTION # 31

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