

# New Study CEM Questions | CEM Exam Blueprint

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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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## AEE Certified Energy Manager (CEM) Sample Questions (Q74-Q79):

### NEW QUESTION # 74

The International Performance Measurement and Verification Protocol (IPMVP) has how many categories (method options) to determine the performance of an energy- or water-consuming system?

- A. 3 Options
- B. 5 Options
- C. 4 Options
- D. 6 Options
- E. 2 Options

**Answer: C**

Explanation:

Comprehensive Detailed Step by Step Explanation with all AEE Energy Manager (CEM) References The International Performance Measurement and Verification Protocol (IPMVP) defines four standard M&V options used globally and explicitly referenced in CEM training:

- \* Option A: Retrofit isolation - key parameter measurement
- \* Option B: Retrofit isolation - all parameter measurement
- \* Option C: Whole facility measurement
- \* Option D: Calibrated simulation

### NEW QUESTION # 75

An air-conditioning system at full load is rated at 70-kW (thermal cooling) and has a coefficient of performance (COP) of 4.1. What is the electrical load at full load?

- A. 17.1 kW
- B. 35.0 kW
- C. 70.0 kW
- D. 23.3 kW
- E. 46.7 kW

**Answer: A**

### NEW QUESTION # 76

Which type of single-phase alternating-current motor has the highest efficiency?

- A. Shaded-pole motor
- B. Permanent split-capacitor motor
- C. Electronic-commutated motor

**Answer: C**

### NEW QUESTION # 77

In a PID control system, what is the purpose of the Proportional Gain?

- A. Senses high load rate
- B. Reacts to change
- C. Reduces/eliminates offset
- D. Control point

**Answer: B**

### NEW QUESTION # 78

Using the natural gas combustion efficiency tables in your workbook, find the combustion efficiency (based on higher-heating value)

of a natural-gas-fired boiler if the excess air level is measured at 31.9% and the stack temperature rise is 187.8°C.

- A. 80%
- B. 76%
- C. 84%
- **D. 78%**
- E. 82%

**Answer: D**

## NEW QUESTION # 79

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