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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 principal 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 productions

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 (Q125-Q130):**

### **NEW QUESTION # 125**

An energy project implemented today saves \$10,000 per year for the next 20 years. Using the 5% interest table, determine the total value of savings at the end of the 20th year?

- A. \$124,620
- B. \$330,660
- C. \$146,907
- **D. \$496,991**
- E. \$200,000

**Answer: D**

### **NEW QUESTION # 126**

A gas-fired boiler is operating with 31.9% excess air. A feedwater economizer is used to reduce the stack temperature rise from 310°C to 160°C. Using the natural gas combustion efficiency tables in your workbook, find the energy savings from the economizer as a percentage of historical fuel consumption.

- **A. 5.8%**
- B. 7.1%
- C. 9.3%
- D. 1.2%
- E. 3.1%

**Answer: A**

### **NEW QUESTION # 127**

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

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

**Answer: A**

### **NEW QUESTION # 128**

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

**Answer: A**

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 # 129

What type of passive heat exchanger can wrap around an evaporator coil to precool entering air and reheat the air after the cooling coil without adding more moisture to the supply air stream?

- A. Heat pump
- B. Run-around coil
- C. Heat pipe
- D. Plate and frame
- E. Desiccant heat wheel

**Answer: C**

### NEW QUESTION # 130

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