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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 (Q76-Q81):

NEW QUESTION # 76

In a chilled water thermal energy storage system, chilled water is stored at 4°C and used for supply water.

Chilled water return is 14°C. Calculate the storage capacity required to hold 50 GJ of thermal cooling. (The specific heat of water (C) is 4.2 kJ/kg-°C. Assume no system losses.)

- A. 1,356 m³
- B. 4,180 m³
- C. 766 m³
- D. 2,618 m³
- **E. 1,191 m³**

Answer: E

NEW QUESTION # 77

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

Answer: A

Explanation:

□

NEW QUESTION # 78

Which of the following is a closed-loop controller?

- A. Accelerator pedal in an automobile
- **B. Thermostat for an air conditioning unit**
- C. Time clock schedule controller
- D. Manual dimmer for a light switch

Answer: B

NEW QUESTION # 79

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

Answer: D

NEW QUESTION # 80

Which of the following statements best describe Demand Control Ventilation (DVC) in Building Automation Systems?

- A. It's an active evaluation of outdoor and indoor space conditions to determine the amount of thermal, mechanical and natural conditioning that is required
- B. It's a prescriptive procedure in which outdoor air intake rates are calculated based on the energy cost method that compares a proposed building design to a base annual energy cost design
- C. It satisfies indoor ventilation rates by preconditioning outdoor air with the exhaust air to decrease energy cost during cold, warm, or humid weather
- D. It's a building standard for enclosed spaces in which biological, chemical, and physical contaminants are considered to meet thermal comfort requirements

Answer: A

NEW QUESTION # 81

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