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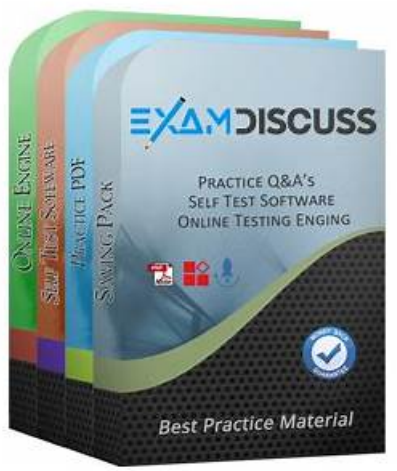

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The Best Reliable CEM Test Dumps bring you Trustworthy CEM Reasonable Exam Price for AEE Certified Energy Manager (CEM)

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AEE Certified Energy Manager (CEM) Sample Questions (Q51-Q56):

NEW QUESTION # 51
An energy-saving project saves $30,000 per year. The project life is 10 years and the company minimum annual rate of return (MARR) is 15%. How much can the project cost and still be cost effective?

- A. $188,343
- B. $198,992
- C. $201,123
- D. $150,570
- E. $165,903

Answer: E

NEW QUESTION # 52
A facility owner is considering installing a new chiller. The installed project cost will be $300,000. The annual savings from the energy-saving project will be $45,000 for the 20-year life of the chiller. If an energy- service company requires a minimum 20% return on investment (pre-tax), will the energy-service company agree to finance this project?

- A. Yes
- B. No

Answer: B

NEW QUESTION # 53
Natural gas costs $4.80/GJ. How much does it cost to heat 500 liters of water from 18°C to 50°C using a natural gas water heater with an efficiency of 85%? [The efficiency and fuel price are both based on HHV.
The specific heat of water (C) is 4.2 kJ/kg-°C.]

- A. $0.25
- B. $0.38
- C. $1.44
- D. $0.76
- E. $1.25

Answer: D

Explanation:
To calculate the cost of heating water using natural gas:
Step 1: Compute Energy Required to Heat the Water
Given:
* Mass of water= 500 L = 500 kg
* Temperature rise (#T)= 50°C - 18°C = 32°C
* Specific heat of water (Cp)= 4.2 kJ/kg-°C
Energy Required (Q)=m×Cp×#T
=500×4.2×32
=67,200 kJ=67.2 MJ
A white paper with black text and numbers AI-generated content may be incorrect.

Step 2: Convert Energy Requirement to GJ

$$67.2 \text{ MJ} = 0.0672 \text{ GJ}$$

Step 3: Adjust for Water Heater Efficiency (85%)

$$\text{Input Energy Required} = \frac{0.0672}{0.85} = 0.0791 \text{ GJ}$$

Step 4: Compute Cost

$$\text{Total Cost} = 0.0791 \times 4.80 = 0.76 \text{ USD}$$

Thus, the correct answer is C. $0.76.

NEW QUESTION # 54

Which of the following is NOT a renewable-energy resource?
SELECT THE CORRECT ANSWER

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

Answer: C

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 # 55
When comparing two similar facilities, you see that the facility with newer, higher-efficiency equipment has a higher energy-use index [EUI] (kJ/m²-yr). What might be the cause?

- A. The facility with the higher EUI requires a supervisory control and data acquisition (SCADA) system
- B. The facility with the higher efficiency equipment should have a higher EUI
- C. The facility with the lower EUI requires a performance contract
- D. The facility with the higher EUI is in need of commissioning
- E. The facility with the lower EUI is in need of commissioning

Answer: D

Explanation:
1) CEM Principle: Equipment Efficiency # System Performance
The AEE CEM Body of Knowledge stresses that higher-efficiency equipment does not guarantee lower energy use unless systems are:
* Properly commissioned
* Correctly controlled
* Operated as designed
2) Evaluation of Options
* A. The facility with the higher EUI is in need of commissioning #
* Most common cause per CEM case studies: controls, sequences, and integration not optimized.
* B. The facility with the lower EUI is in need of commissioning #
* Lower EUI indicates better performance.
* C. The facility with the lower EUI requires a performance contract #
* No evidence supports this.
* D. The facility with the higher efficiency equipment should have a higher EUI #
* Contradicts energy efficiency principles.
* E. The facility with the higher EUI requires a SCADA system #
* Monitoring alone does not correct poor performance.
CEM Exam Insight
Commissioning ensures that high-efficiency equipment actually delivers expected energy performance.

NEW QUESTION # 56
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