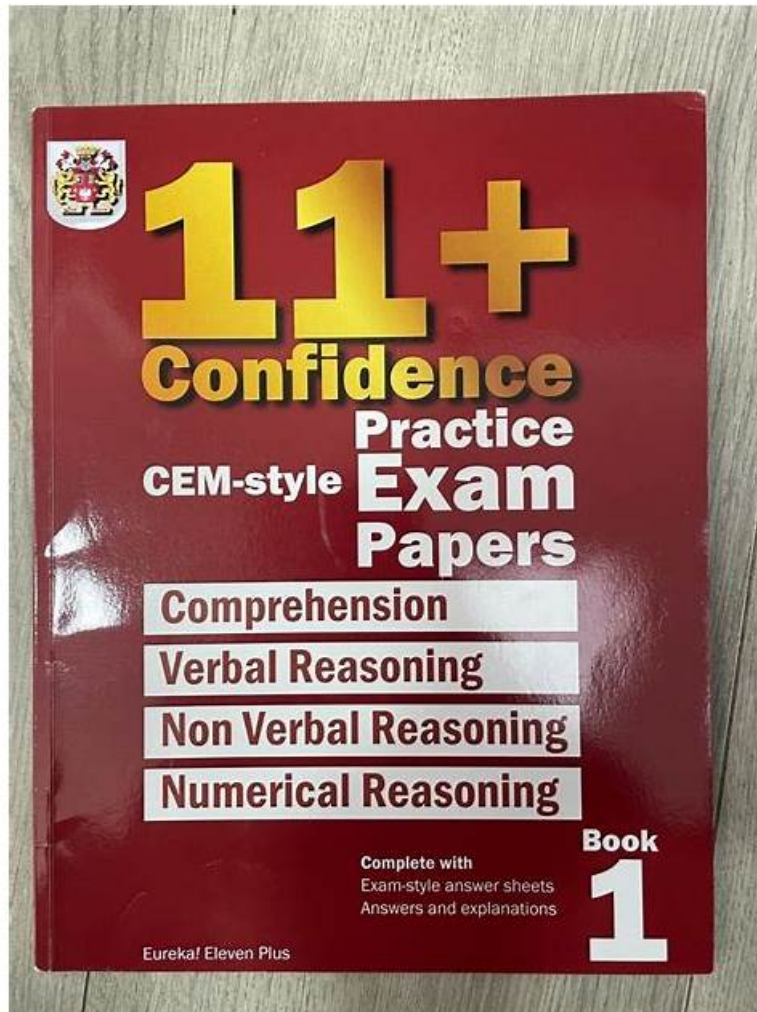


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AEE Certified Energy Manager (CEM) Sample Questions (Q73-Q78):

NEW QUESTION # 73

Using an interest rate of 15%, an energy project has a net-present value (NPV) of \$3,500. Which statement is true about the project's internal rate of return (IRR)?

- A. $IRR < 15\%$
- **B. $IRR > 15\%$**
- C. $IRR < 0\%$
- D. $IRR = 15\%$

Answer: B

NEW QUESTION # 74

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

Answer: B

Explanation:

$$COP = \frac{\text{Cooling Output (kJ/h)}}{\text{Electrical Input Power (kJ/h)}}$$

Step 1: Convert Electrical Input to Power in kW

- Voltage: 220 V
- Current: 5.25 A
- Power Factor: 100% (or 1.0)

$$\begin{aligned}\text{Electrical Power} &= V \times I \times PF \\ &= 220 \times 5.25 \times 1.0 = 1,155 \text{ W} = 1.155 \text{ kW}\end{aligned}$$

Step 2: Convert Electrical Power to kJ/h

$$1.155 \text{ kW} \times 3600 \text{ s/h} = 4,158 \text{ kJ/h}$$

Step 3: Calculate COP

$$COP = \frac{10,000}{4,158} = 2.4$$

NEW QUESTION # 75

In a typical compressed air system, energy can be saved by which of the following actions?

- A. Raising the air pressure
- **B. Decreasing supply air pressure**
- C. Reducing the air distribution pipe size
- D. Move the inlet air filter to a warmer location
- E. Reducing the capacity of the compressed air receiver tanks

Answer: B

NEW QUESTION # 76

A large office building is entirely fitted out with ten-thousand new T5 fluorescent lamps today, which will be operational for 2,500 hours per year. The lamps are supposed to last 17,860 hours. How many months from today will be the best schedule for group relamping (total replacement of all the T5 fluorescent lamps in the building)?

- A. 5 months
- B. 60 months
- C. 68 months
- **D. 85.7 months**

Answer: D

NEW QUESTION # 77

A facility has a monthly peak power demand of 1,000 kW and an average power factor of 80%. The facility pays a demand charge of \$7.50/kVA-month. What is the additional cost per month because the power factor is less than 100%?

- A. \$2,244/month
- B. \$0/month
- C. \$187/month
- D. \$3,370/month
- **E. \$1,875/month**

Answer: E

Explanation:

To calculate the additional cost due to a power factor of less than 100%, follow these steps:

Step 1: Convert Real Power (kW) to Apparent Power (kVA)

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$$\text{Apparent Power (kVA)} = \frac{\text{Real Power (kW)}}{\text{Power Factor (PF)}}$$
$$\frac{1,000}{0.80} = 1,250 \text{ kVA}$$

Step 2: Compute Additional kVA Due to Power Factor

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$$\text{Extra kVA} = 1,250 - 1,000 = 250 \text{ kVA}$$

Step 3: Compute Additional Cost

$$\text{Extra Cost} = 250 \times 7.50 = 1,875 \text{ USD/month}$$

Thus, the correct answer is C. \$1,875/month.

NEW QUESTION # 78

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