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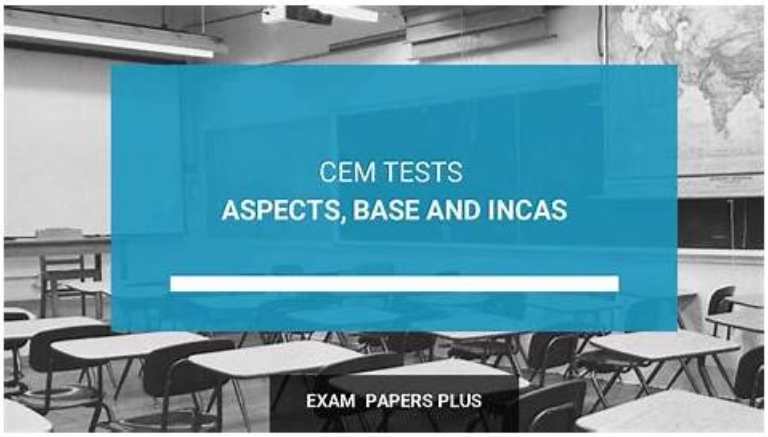

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AEE Certified Energy Manager (CEM) Sample Questions (Q62-Q67):

NEW QUESTION # 62
A cooling tower is delivering water to a chilled-water plant. The cooling tower outlet temperature has a 6°C approach temperature to the ambient air, wet-bulb temperature. The outside air conditions are 20°C dry bulb,
60% relative humidity. Using the psychrometric chart, at what temperature can the cooling tower deliver water to the chilled-water plant?

- A. 17°C
- B. 25°C
- C. 13°C
- D. 21°C

Answer: A

NEW QUESTION # 63
An energy-saving project costs $540,000. The project will have maintenance costs of $25,000 per year. The energy savings from

the project are $160,000 per year. The project has a life of 10 years with no salvage value. The minimum attractive rate of return (MARR) is 10%. Using end-of-year cash flows, calculate the net- present value (NPV) of the project.

- A. $289,575
- B. $154,657
- C. $456,254
- D. $311,556

Answer: A

Explanation:
The Net Present Value (NPV) formula is:

$$NPV = \sum \frac{(S - M)}{(1+i)^t} - C_0$$

Where:

- $S = 160,000$ (Annual Energy Savings)
- $M = 25,000$ (Annual Maintenance Costs)
- $C_0 = 540,000$ (Initial Investment)
- $n = 10$ (Project Life)
- $i = 10\%$ (Discount Rate)
- $P/A, 10\%, 10$ = 6.145 (Uniform Present Worth Factor)

Step 1: Compute Present Worth of Net Savings

$$\text{Net Annual Savings} = 160,000 - 25,000 = 135,000$$

$$\text{Present Worth} = 135,000 \times 6.145 = 829,575$$

Step 2: Compute NPV

$$NPV = 829,575 - 540,000 = 289,575$$

Thus, the correct answer is B. $289,575.

NEW QUESTION # 64
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. 13.2
- B. 6.2
- C. 16.1
- D. 3.2
- E. 2.4

Answer: D

Explanation:
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The Coefficient of Performance (COP) is given by:

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

Step 1: Convert Electrical Input to Power in kW

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

$$\text{Electrical Power} = V \times I \times PF$$

$$= 220 \times 5.25 \times 1.0 = 1,155 \text{ W} = 1.155 \text{ kW}$$

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

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

Thus, the correct answer is B. 3.2.

NEW QUESTION # 65
Lighting systems operate with a certain recoverable light loss factor. Control systems with photocell sensor inputs combined with dimming ballasts can be used to regulate dimming levels to maintain a continuous light level in the work space. Which of the following best describes this type of control?

- A. Two-position controller
- B. Closed-loop controller
- C. Demand-limiting controller
- D. Open-loop controller

Answer: B

NEW QUESTION # 66
A 55-kW motor at full load is used to drive a pump that generates 50 meters of head while pumping water at a rate of 5,000 liters per minute. Calculate the pump efficiency.

- A. 62%
- B. 88%
- C. 58%
- D. 74%

Answer: D

NEW QUESTION # 67
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