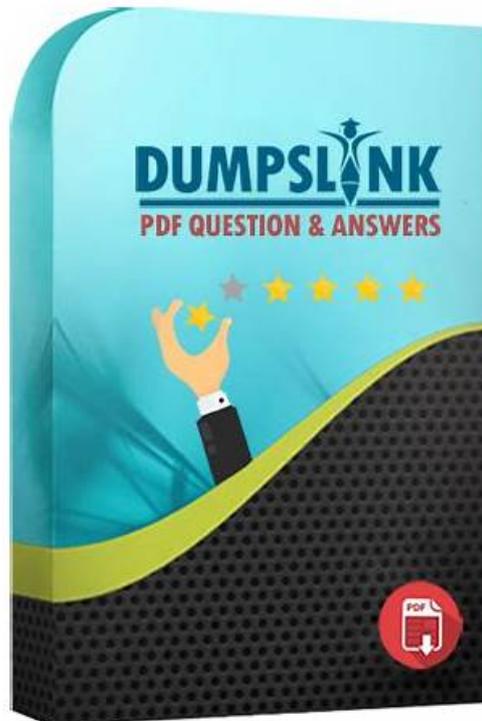


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## AEE Certified Energy Manager (CEM) Sample Questions (Q56-Q61):

### NEW QUESTION # 56

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

**Answer: C**

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 **C. \$289,575**.

### NEW QUESTION # 57

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

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

**Answer: A**

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 # 58

A motor operates with a normal and constant load. The electric current is measured to be 25% of the motor's nameplate rating. What does this mean?

- A. The applied voltage is too high and should be reduced to improve efficiency
- **B. The motor is oversized and may be downsized to increase efficiency**
- C. The applied voltage is too low and should be increased to improve efficiency
- D. The motor is operating at high efficiency

**Answer: B**

#### NEW QUESTION # 59

What is a common cause of poor power quality?

- **A. Electronic equipment, such as personal computers**
- B. Partially loaded induction motors
- C. Natural gas turbine power generation by utilities
- D. Synchronous motors
- E. Incandescent lighting

**Answer: A**

#### NEW QUESTION # 60

What instrument determines flow rate by measuring pressure differential?

- A. Psychrometer
- B. Infrared camera
- C. Ultrasonic flow meter
- **D. Pitot tube**
- E. Hot-wire anemometer

**Answer: D**

Explanation:

A Pitot tube measures flow rate by determining the pressure differential in a fluid.

Why is a Pitot Tube the Correct Answer?

\* It measures dynamic pressure and static pressure in a moving fluid.

\* Using Bernoulli's equation, it calculates velocity and flow rate.

Analysis of Other Options:

\* Psychrometer (A): Measures humidity, not flow rate.

\* Infrared camera (B): Detects temperature differences, not pressure.

\* Hot-wire anemometer (C): Measures air velocity using heat dissipation, but not pressure differential.

\* Ultrasonic flow meter (E): Measures flow using sound waves, not pressure.

Thus, the correct answer is D. Pitot tube.

#### NEW QUESTION # 61

