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CERTIFIED EMERGENCY MANAGER CEM FINAL EXAM PREP 2025/2026 ACCURATE QUESTIONS WITH CORRECT DETAILED ANSWERS || 100% GUARANTEED PASS <RECENT VERSION>

1. Emergency - ANSWER ✓ Event that can usually be handled by existing resources, particularly by first responders (fire, police, ambulance) but does not require activation of an EOC or disrupt the community.
2. Disaster - ANSWER ✓ Event that disrupts community functioning and requires resources beyond those used for routine emergencies (e.g., ambulances)
3. Catastrophe - ANSWER ✓ Event that disrupts regional capacities to respond to those affected and requires resources outside the area for an extended time.
4. Emergent Norm Theory - ANSWER ✓ Sociological perspective describing how people respond and adapt to the dynamic conditions fostered by a disaster environment; evolution of new individual, group, and organizational behavioral guidelines.
5. Systems Theory - ANSWER ✓ Perspective focused on the interaction of the built, physical, and human environments.
6. Hazard Identification - ANSWER ✓ Identifying the history, frequency, and location of specific hazards and how they may impact a given location.
7. Risk Analysis - ANSWER ✓ Calculating the potential for an impact and the associated losses based on findings of a hazard identification

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AEE Certified Energy Manager (CEM) Sample Questions (Q19-Q24):

NEW QUESTION # 19

What is the Energy Use index (EUI) for a 4,000 m² building that uses the following amountsof energy each year?

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Natural gas	1,600 GJ/yr
Fuel oil (39,000 kJ/liter)	19,000 liters/yr
Electricity	300,000 kWh/yr

- A. 3,220,800 kg/m²-yr
- B. 1,612,000 kJ/m²-yr
- C. 855,250 kJ/m²-yr
- D. 403,311 kJ/m²-yr
- E. 625,600 kJ/m²-yr**

Answer: E

Explanation:

A screenshot of a math problem AI-generated content may be incorrect.

The Energy Use Index (EUI) is calculated as the total annual energy consumption divided by the building area.

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Step 1: Convert Energy Units to kJ

- Natural gas:

$$1,600 \text{ GJ} = 1,600 \times 10^6 = 1,600,000,000 \text{ kJ}$$

- Fuel oil:

$$19,000 \text{ liters} \times 39,000 \text{ kJ/liter} = 741,000,000 \text{ kJ}$$

- Electricity:

$$1 \text{ kWh} = 3,600 \text{ kJ}$$

$$300,000 \text{ kWh} \times 3,600 = 1,080,000,000 \text{ kJ}$$

Step 2: Calculate Total Energy Use

$$1,600,000,000 + 741,000,000 + 1,080,000,000 = 3,421,000,000 \text{ kJ}$$

Step 3: Calculate EUI

$$\text{EUI} = \frac{3,421,000,000}{4,000}$$
$$= 625,600 \text{ kJ/m}^2\text{-yr}$$

Thus. the correct answer is B. 625,600 kJ/m²-yr.

NEW QUESTION # 20

Using the lumen method, calculate the number of luminaires (fixtures) required to light a room to 200 lux.

Each luminaire has 2 fluorescent lamps, 3,000 lumens per lamp. The room is 20 meters by 30 meters. The total light loss factor (LLF) is 0.70 and the luminaire coefficient of utilization (CU) is 0.80.

- A. 36 luminaires
- B. 12 luminaires
- C. 24 luminaires**
- D. 48 luminaires
- E. 60 luminaires

Answer: C

NEW QUESTION # 21

A heat pump water heater has an annual average coefficient of performance (COP) of 2.1 and heats water from 15°C to 50°C. Hot water use is 100 liters per day, 365 days/yr. The electricity cost is \$0.10/kWh. What is the annual water heating cost? (The specific heat of water (C) is 4.2 kJ/kg·°C.)

- A. \$52.20/year
- B. \$44.88/year
- C. \$70.97/year
- D. \$88.29/year
- E. \$64.66/year

Answer: E

NEW QUESTION # 22

What is the definition of lamp life for a fluorescent lamp?

- A. The time at which lamps begin to fail
- B. The time at which lumen output has reduced by 50%
- C. The time at which lumen output has reduced to 70% of the initial light output
- D. The time at which 70% of a large sample of lamps have failed
- E. The time at which 50% of a large sample of lamps have failed

Answer: C

NEW QUESTION # 23

What is the best type of heat exchanger to recover and transfer latent heat energy from one air stream to another?

- A. Ceramic recuperator
- B. Run-around system
- C. Desiccant heat wheel
- D. Shell and tube
- E. Heat pipe

Answer: C

NEW QUESTION # 24

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