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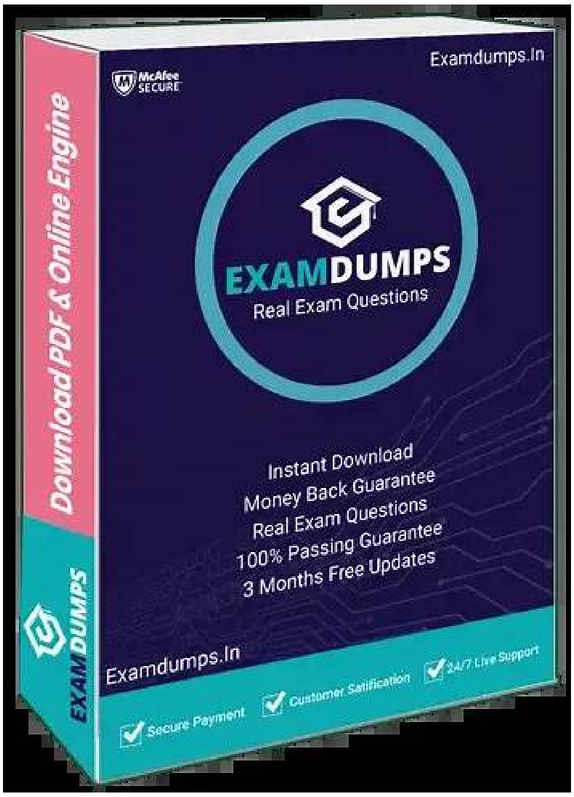

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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28
Which of the following is NOT a characteristic of the EDGE standard?

- A. Fast tool with ideal measures for the best return on investment
- B. Smart, as capital costs and payback period for buildings are displayed
- C. Simple, as beneath the intuitive interface is a powerful engine that understands local climate and how buildings will be used
- D. Holistic approach that takes into account wider sustainability issues

Answer: D

Explanation:
The EDGE standard is designed to be a practical, focused tool for green building certification, emphasizing specific resource efficiency metrics. The EDGE User Guide describes its characteristics: "EDGE is a simple, fast, and smart tool for green building certification. It provides an intuitive interface with a powerful engine that accounts for local climate and building use (simple), identifies measures with the best return on investment (fast), and displays capital costs and payback periods (smart)" (EDGE User Guide, Section 1.1:
Introduction to EDGE). Options A, C, and D align with these descriptions. However, Option B (holistic approach that takes into account wider sustainability issues) is not a characteristic of EDGE, as the standard focuses narrowly on energy, water, and embodied energy in materials, not broader sustainability issues like biodiversity or social equity. This is clarified in the EDGE Certification Protocol: "EDGE is not a holistic sustainability standard; it specifically targets resource efficiency in energy, water, and materials, excluding wider sustainability metrics such as indoor air quality or ecological impact" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). Thus, Option B is not a characteristic of the EDGE standard.
Reference: EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard.

NEW QUESTION # 29
How often should the EDGE Zero Carbon certification be renewed?

- A. Initially after two years, subsequently every four years
- B. Every two years if using carbon offsets, or every four years if using 100% renewable energy
- C. Initially after four years, subsequently every two years
- D. Every four years if using carbon offsets, or every two years if using 100% renewable energy

Answer: A

Explanation:
EDGE Zero Carbon certification requires periodic renewal to ensure ongoing compliance with zero carbon standards, particularly since it often involves carbon offsets or renewable energy commitments that may change over time. The EDGE Certification Protocol specifies the renewal timeline: "EDGE Zero Carbon certification must be renewed initially after two years to verify that the building continues to meet the zero carbon requirements, including the use of carbon offsets or renewable energy. Subsequently, renewal is required every four years to ensure long-term compliance with the standard" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option A, initially after two years, subsequently every four years, directly matches this requirement.Option B (initially after four years, subsequently every two years) reverses the timeline, which does not align with the protocol: "The initial two-year renewal ensures early verification, while the four-year cycle applies thereafter to balance monitoring with practicality" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option C (every two years if using carbon offsets, or every four years if using 100% renewable energy) and Option D (every four years if using carbon offsets, or every two years if using 100% renewable energy) introduce a distinction based on the method of achieving zero carbon status, which is not supported by EDGE documentation: "The renewal timeline for EDGE Zero Carbon is consistent regardless of whether carbon offsets or renewable energy are used, as both methods require ongoing verification of performance and offset purchases" (EDGE User Guide, Section 6.3: Advanced Certifications). The EDGE Methodology Report adds: "The two-year initial renewal allows for confirmation of operational data and offset validity, while the four-year subsequent renewal cycle ensures sustained commitment without excessive administrative burden"

(EDGE Methodology Report Version 2.0, Section 2.3:
Zero Carbon Calculations). The EDGE User Guide further confirms: "EDGE Zero Carbon certification renewal follows a standard schedule of two years initially, then every four years, to maintain the integrity of the zero carbon claim over time" (EDGE User Guide, Section 6.3: Advanced Certifications). Thus, the correct renewal schedule is initially after two years, then every four years (Option A).
Reference:EDGE Certification Protocol, Section 2.3: Certification Levels; EDGE User Guide Version 2.1, Section 6.3: Advanced Certifications; EDGE Methodology Report Version 2.0, Section 2.3: Zero Carbon Calculations.

NEW QUESTION # 30
A building is located in a hot and dry climate where water availability (rainfall) is low. Which of the following measures will give the lowest water savings?

- A. Recycle black water
- B. Dual flush for water closets
- C. Rainwater harvesting
- D. Low-flow showers

Answer: C

Explanation:
In a hot and dry climate with low rainfall, water efficiency measures in EDGE are evaluated based on their potential to reduce potable water demand, but their effectiveness depends on local conditions. The EDGE User Guide explains the impact of various water-saving measures: "In regions with low rainfall, rainwater harvesting provides minimal water savings due to limited precipitation, whereas measures like low-flow showers, dual flush toilets, and black water recycling can achieve consistent savings by reducing direct water use or reusing wastewater" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option B, rainwater harvesting, relies on rainfall to collect water for non-potable uses, but in a hot and dry climate with low water availability, its effectiveness is limited: "Rainwater harvesting systems in EDGE are modeled based on local precipitation data. In arid climates with annual rainfall below 200 mm, savings from rainwater harvesting are typically less than 5% of total water demand, as the collected volume is insufficient to meet significant needs" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). In contrast, Option A (low-flow showers) reduces water use directly: "Low-flow showers can reduce water consumption by 20-30% in buildings, regardless of climate, by limiting flow rates to 6-8 liters per minute" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Option C (recycle black water) also offers consistent savings: "Black water recycling systems can save 30-40% of water demand by treating and reusing wastewater for flushing or irrigation, independent of rainfall" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Option D (dual flush for water closets) similarly provides reliable savings: "Dual flush toilets reduce water use by 25-35% by offering a low-flush option for liquid waste, effective in all climates" (EDGE User Guide, Section 5.2: Water Efficiency Measures). Given the low rainfall in a hot and dry climate, rainwater harvesting (Option B) yields the lowest water savings compared to the other measures, which do not depend on precipitation. The EDGE User Guide further notes: "In dry climates, measures like rainwater harvesting are often the least effective, while demand-side measures (e.g., low-flow fixtures) and recycling systems provide higher and more consistent water savings" (EDGE User Guide, Section 5.3: Additional Water Efficiency Measures). Thus, rainwater harvesting (Option B) gives the lowest water savings in this context.
Reference:EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures, Section 5.3: Additional Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

NEW QUESTION # 31
Which of the following is an EDGE measure to reduce the embodied energy in materials?

- A. External shading
- B. Fly ash concrete
- C. Low-flow shower heads
- D. Occupancy sensors

Answer: B

Explanation:
Embodied energy in materials is one of the three core pillars of the EDGE standard, focusing on reducing the environmental impact of construction materials. The EDGE User Guide lists measures that specifically target embodied energy: "To reduce embodied energy in materials, EDGE includes measures such as the use of fly ash concrete, which substitutes a portion of cement with fly ash, a byproduct of coal combustion, thereby lowering the embodied energy and carbon footprint of concrete production" (EDGE User

Guide, Section 7.2:
Materials Efficiency Measures). Option B, fly ash concrete, directly aligns with this measure, as it reduces the need for high-energy cement production. Option A (external shading) impacts energy by reducing cooling loads but does not directly address embodied energy: "External shading reduces operational energy use but does not contribute to embodied energy savings unless the shading materials themselves are low-impact, which is not specified in EDGE" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option C (occupancy sensors) is an energy efficiency measure for lighting, not materials: "Occupancy sensors reduce lighting energy use but have no direct impact on embodied energy in materials" (EDGE User Guide, Section
4.4: Lighting Efficiency Measures). Option D (low-flow shower heads) targets water efficiency, not materials:
"Low-flow shower heads reduce water consumption, but their embodied energy impact is minimal and not a focus of EDGE materials measures" (EDGE User Guide, Section 5.2: Water Efficiency Measures). The EDGE MethodologyReport further elaborates: "Fly ash concrete can reduce embodied energy by up to 20% compared to traditional concrete, making it a key measure in EDGE for materials efficiency, especially in high-volume applications like hospitals or hotels" (EDGE Methodology Report Version 2.0, Section 6.1:
Embodied Energy in Materials). Other materials measures in EDGE, such as using recycled steel or bamboo, are not listed among the options, making fly ash concrete (Option B) the correct choice for reducing embodied energy.
Reference:EDGE User Guide Version 2.1, Section 7.2: Materials Efficiency Measures, Section 3.5: Passive Design Strategies, Section 4.4: Lighting Efficiency Measures, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 6.1: Embodied Energy in Materials.

NEW QUESTION # 32

What is the minimum percentage of efficient lightbulbs that must be installed to claim the measure EEM22 - Efficient Lighting for Internal Areas?

- A. 90%
- B. 70%
- C. 80%
- D. 100%

Answer: A

Explanation:
The EDGE measure EEM22 - Efficient Lighting for Internal Areas focuses on reducing energy consumption through the use of efficient lighting. The EDGE User Guide specifies the requirements for this measure: "To claim EEM22 - Efficient Lighting for Internal Areas, at least 90% of the lamps in internal areas must be energy-efficient, such as LED or CFL, with a luminous efficacy of at least 80 lumens per watt. This threshold ensures significant energy savings while allowing for minimal exceptions in specific areas" (EDGE User Guide, Section 4.4: Lighting Efficiency Measures). Option C, 90%, directly matches this requirement. Option A (70%) and Option B (80%) are below the threshold, thus not qualifying for the measure. Option D (100%) exceeds the minimum requirement, but EDGE allows for flexibility with a 90% threshold to accommodate practical constraints: "A 90% requirement balances practicality with energy savings, recognizing that some areas may require specialized lighting" (EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations). Therefore, the minimum percentage to claim EEM22 is 90% (Option C).
Reference:EDGE User Guide Version 2.1, Section 4.4: Lighting Efficiency Measures; EDGE Methodology Report Version 2.0, Section 5.4: Lighting Calculations.

NEW QUESTION # 33

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