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## EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q52-Q57):

### NEW QUESTION # 52

Which building typology should benefit the most from having a wastewater treatment and recycling system?

- A. Homes
- B. Office
- C. Hotel
- D. School

**Answer: C**

**Explanation:**

Wastewater treatment and recycling systems are evaluated in EDGE for their potential to reduce water consumption, a key aspect of green building design. The EDGE User Guide highlights the varying water usage patterns across building typologies: "Hotels typically have high water consumption due to guest rooms, laundry, and amenities like pools, making them ideal candidates for wastewater

treatment and recycling systems, which can significantly reduce potable water demand by reusing treated water for non-potable uses such as irrigation and flushing" (EDGE User Guide, Section 5.2: Water Efficiency Measures). In contrast, homes (Option A) and offices (Option D) generally have lower per-capita water use, and schools (Option C) have intermittent occupancy, reducing the overall impact of such systems. The EDGE Methodology Report further supports this, noting: "For hotels, greywater and blackwater recycling can achieve up to 40% water savings due to high occupancy and consistent demand, compared to 20-25% in homes or offices" (EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations). Thus, hotels (Option B) benefit the most from wastewater treatment and recycling systems due to their high water usage and potential for significant savings. Reference: EDGE User Guide Version 2.1, Section 5.2: Water Efficiency Measures; EDGE Methodology Report Version 2.0, Section 4.2: Water Savings Calculations.

### NEW QUESTION # 53

Which of the following does NOT contribute to an EDGE Auditor maintaining their Auditor status?

- A. Studying the EDGE user guides as and when they are updated.
- **B. Retaking the auditor exam.**
- C. Attending refresher training.
- D. Performing at least one project site audit every two years.

**Answer: B**

Explanation:

Maintaining EDGE Auditor status involves specific requirements to ensure ongoing competence. The EDGE Expert and Auditor Protocols outline these requirements: "To maintain their status, EDGE Auditors must perform at least one project site audit every two years, attend refresher training as required by IFC, and stay updated by studying the EDGE user guides and protocols as they are revised" (EDGE Expert and Auditor Protocols, Section 5.1: Maintaining Auditor Status). Option A (performing at least one project site audit every two years) is explicitly required to demonstrate active engagement. Option B (studying the EDGE user guides as updated) is also necessary to stay current with program changes. Option D (attending refresher training) is mandated to ensure continued education. However, Option C (retaking the auditor exam) is not a requirement for maintaining status: "Once certified, EDGE Auditors are not required to retake the exam to maintain their status, though they may need to retake it if their certification lapses or if significant program changes occur" (EDGE Expert and Auditor Protocols, Section 5.2: Recertification Conditions). Since the question focuses on maintaining status, not recertification after lapse, retaking the exam is not a standard requirement. Thus, retaking the auditor exam (Option C) does not contribute to maintaining Auditor status.

Reference: EDGE Expert and Auditor Protocols, Section 5.1: Maintaining Auditor Status, Section 5.2: Recertification Conditions.

### NEW QUESTION # 54

VRV / VRF System is best used for:

- A. Meeting space
- **B. Multizone space**
- C. Single zone space
- D. Single zone office space

**Answer: B**

Explanation:

Variable Refrigerant Volume (VRV) or Variable Refrigerant Flow (VRF) systems are evaluated in EDGE for their energy efficiency in HVAC applications. The EDGE User Guide explains their application: "VRV/VRF systems are best suited for multizone spaces, as they can simultaneously heat and cool different zones by varying the refrigerant flow, making them ideal for buildings with diverse thermal loads, such as hotels, offices, or hospitals with multiple rooms" (EDGE User Guide, Section 4.2: Energy Efficiency Measures).

Option C, multizone space, aligns with this description, as VRV/VRF systems excel in managing varied temperature needs across multiple zones. Option A (single zone space) and Option B (single zone office space) are incorrect, as VRV/VRF systems are less efficient for single zones: "For single zone spaces, simpler systems like split units are more appropriate, as VRV/VRF systems are designed for multizone control" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option D (meeting space) is too specific and typically a single zone, not leveraging VRV/VRF's multizone capability: "Meeting spaces are often single zones, where VRV/VRF systems may be oversized" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, VRV/VRF systems are best used for multizone spaces (Option C).

Reference: EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures; EDGE Methodology Report Version 2.0,

## Section 5.1: Energy Efficiency Metrics.

### NEW QUESTION # 55

Which of the following heating systems uses Coefficient of Performance (COP) as a measure of efficiency in the EDGE software?

- A. Sensible heat recovery from exhaust air
- B. Electric heater
- C. Ground source heat pump
- D. Condensing boiler

**Answer: C**

Explanation:

In EDGE, the Coefficient of Performance (COP) is used to measure the efficiency of heating systems that produce heat using a refrigeration cycle, such as heat pumps. The EDGE Methodology Report specifies: "The Coefficient of Performance (COP) is used in EDGE to evaluate the efficiency of heat pumps, including ground source heat pumps, where it is defined as the ratio of thermal output to electrical input. This metric is not applied to direct heating systems like electric heaters or boilers" (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Option C, ground source heat pump, fits this description as it operates using a refrigeration cycle to transfer heat, and its efficiency is measured by COP in EDGE. Option A (electric heater) has an efficiency typically measured as 100% (or COP of 1), but EDGE does not use COP for such systems, as noted: "Electric heaters are assumed to have a fixed efficiency in EDGE, not evaluated via COP" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Option B (condensing boiler) uses thermal efficiency (%), not COP, as per: "Boilers in EDGE are assessed by their thermal efficiency, not COP" (EDGE Methodology Report Version 2.0, Section 5.2: Heating Systems). Option D (sensible heat recovery from exhaust air) is a heat recovery method, not a heating system, and does not use COP: "Heat recovery systems are evaluated by their heat recovery effectiveness, not COP" (EDGE User Guide, Section 4.3: Ventilation Measures). Thus, ground source heat pump (Option C) is the correct choice.

Reference: EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics, Section 5.2: Heating Systems; EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures, Section 4.3: Ventilation Measures.

### NEW QUESTION # 56

Which of the following passive design features is considered within the EDGE calculation methodology?

- A. External shading
- B. Renewable energy
- C. Efficient cooling system
- D. Lighting controls

**Answer: A**

Explanation:

Passive design features in EDGE focus on reducing energy demand through architectural and design strategies that minimize the need for active systems. The EDGE User Guide lists passive design measures included in its methodology: "Passive design features in EDGE include external shading, natural ventilation, insulation, and high-reflectivity materials, which reduce energy demand for heating, cooling, and lighting by leveraging climate and site conditions" (EDGE User Guide, Section 3.5: Passive Design Strategies). Option B, external shading, is explicitly mentioned as a passive design feature that reduces solar heat gain, thereby lowering cooling energy needs. Option A (lighting controls) is an active measure, not passive, as it involves electrical systems. Option C (renewable energy) is an energy generation measure, not a passive design strategy, as noted in the EDGE Methodology Report: "Renewable energy systems like solar PV are treated as energy supply measures, not passive design" (EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures). Option D (efficient cooling system) is also an active system, not passive. Thus, external shading (Option B) is the correct passive design feature within EDGE's calculation methodology.

Reference: EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies; EDGE Methodology Report Version 2.0, Section 5.3: Energy Measures.

### NEW QUESTION # 57

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