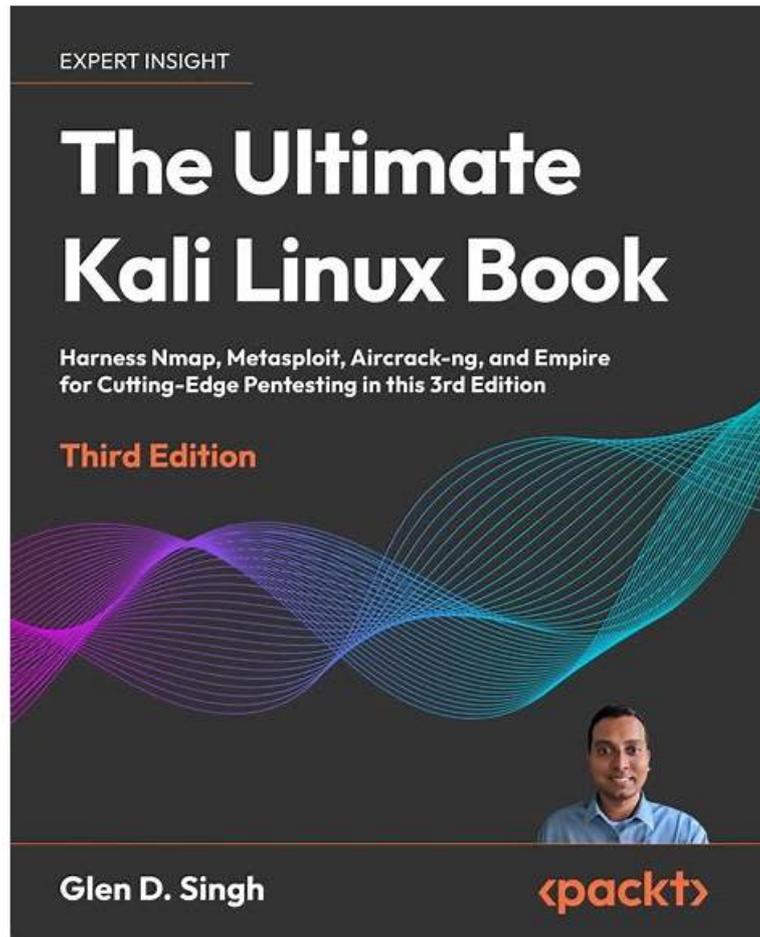


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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

VRV / VRF System is best used for:

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

EnergyEfficiency 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 # 11

Energy consumption calculations in EDGE are based on:

- A. Hourly simulation.
- B. Cooling and heating degree days.
- **C. Steady state calculations.**
- D. Quasi-steady state calculations.

Answer: C

Explanation:

The EDGE software uses a simplified approach to calculate energy consumption, focusing on accessibility and speed for users in emerging markets. The EDGE Methodology Report explains the calculation method:

"Energy consumption in EDGE is calculated using steady state calculations, which assume constant conditions over a period to estimate energy use for heating, cooling, lighting, and other systems. This method simplifies the modeling process while providing sufficiently accurate results for the purposes of EDGE certification" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). Option B, steady state calculations, directly matches this approach. Option A (hourly simulation) is incorrect, as EDGE does not use dynamic simulations: "EDGE does not employ hourly simulations, which are more complex and resource-intensive, as the goal is to provide a fast and simple tool" (EDGE User Guide, Section 2.1: EDGE Software Overview). Option C (quasi-steady state calculations) is also incorrect, as EDGE does not use this intermediate method: "Quasi-steady state methods, which account for some dynamic effects, are not used in EDGE to maintain simplicity" (EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods). Option D (cooling and heating degree days) is a metric used to estimate climate impact, not the calculation method: "Degree days are inputs to the steady state calculations, not the method itself" (EDGE User Guide, Section 3.2: Climate Data Inputs). Thus, steady state calculations (Option B) are used for energy consumption in EDGE.

Reference:EDGE Methodology Report Version 2.0, Section 5.2: Energy Calculation Methods; EDGE User Guide Version 2.1, Section 2.1: EDGE Software Overview, Section 3.2: Climate Data Inputs.

NEW QUESTION # 12

Which of the following wall solar reflectivity indexes would be the most energy efficient in a hot climate?

- A. 0.2
- B. 0.4
- C. 0.3

- **D. 0.7**

Answer: D

Explanation:

In hot climates, reducing heat gain through building envelopes is a key strategy for energy efficiency, as emphasized in EDGE's green building design principles. The EDGE User Guide discusses solar reflectivity (measured by the Solar Reflectance Index, SRI) for walls and roofs, stating: "Higher SRI values indicate greater reflectivity, which reduces heat absorption and lowers cooling energy demand in hot climates. For walls in hot climates, an SRI of 0.7 or higher is recommended to maximize energy savings" (EDGE User Guide, Section 3.5: Passive Design Strategies). The options provided are 0.2, 0.3, 0.4, and 0.7. Since 0.7 is the highest SRI value among the choices, it reflects the most solar radiation, thereby reducing the cooling load and improving energy efficiency in a hot climate, as per EDGE's guidance. Options A, B, and C have lower SRI values and would result in greater heat absorption, increasing energy use for cooling.

Reference:EDGE User Guide Version 2.1, Section 3.5: Passive Design Strategies.

NEW QUESTION # 13

The Client informs an EDGE Auditor that a key member of the design team has resigned. The Client requests the Auditor to take the member's place for the remainder of the project's design development as it would provide the Auditor an opportunity to identify suitable green building measures, making audit tasks much simpler. What should the EDGE Auditor do?

- A. Refer the Client to an associate within the organization who will be working with the Auditor on the EDGE audit, since the Auditor organization has spare capacity.
- **B. Refer the Client to an associate within the organization who works in another department, but is qualified and available to carry out the work.**
- C. Accept the additional commission on the basis that this will save the Client time and money, and would reduce the volume of work required for the audit.
- D. Resign from the audit role on the basis that its position has been compromised by this direct approach by the Client.

Answer: B

Explanation:

The EDGE framework strictly prohibits Auditors from engaging in roles that could compromise their independence, such as providing design consultancy on the same project they are auditing. The EDGE Expert and Auditor Protocols address this scenario explicitly: "An EDGE Auditor must not accept any role in the design development of a project they are auditing, as this creates a conflict of interest by blurring the lines between consultancy and independent verification. If the Client requests the Auditor to take on a design role, the Auditor should decline and may refer the Client to another qualified professional who is not involved in the audit process" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). Option B, refer the Client to an associate within the organization who works in another department, but is qualified and available to carry out the work, aligns with this guidance, as it maintains the Auditor's independence while helping the Client find a suitable replacement. Option A (resign from the audit role) is an overreaction, as the request itself does not compromise the Auditor's position unless accepted: "The Auditor is not required to resign unless they have already engaged in a conflicting role, which can be avoided by declining the request" (EDGE Expert and Auditor Protocols, Section 4.1: Audit Process). Option C (accept the additional commission) is unethical, as it violates conflict-of-interest rules: "Accepting a design role on a project being audited undermines the Auditor's impartiality, as they would be auditing their own work, which is strictly prohibited" (EDGE Certification Protocol, Section 3.1: Certification Process). Option D (refer the Client to an associate working with the Auditor on the EDGE audit) is also incorrect, as this associate is already involved in the audit, creating a potential conflict: "Referring the Client to someone involved in the same audit does not resolve the conflict of interest, as the audit team must remain independent from design activities" (EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest). The EDGE User Guide reinforces this principle: "Auditors must maintain strict separation from design roles to ensure an unbiased audit, and should assist the Client by referring them to independent professionals if needed" (EDGE User Guide, Section 6.5: Working with EDGE Auditors). Thus, referring the Client to a qualified associate in another department (Option B) is the correct action.

Reference:EDGE Expert and Auditor Protocols, Section 2.3: Conflict of Interest, Section 4.1: Audit Process; EDGE Certification Protocol, Section 3.1: Certification Process; EDGE User Guide Version 2.1, Section 6.5:

Working with EDGE Auditors.

NEW QUESTION # 14

For which of the following is EDGE Advanced certification available?

- A. Infrastructure constructions

- B. Green lease agreements
- **C. New constructions**
- D. Parks and landscape projects

Answer: C

Explanation:

The EDGE Standard defines specific project types eligible for certification levels, including EDGE Advanced, which requires at least 40% energy savings. The EDGE Certification Protocol specifies: "EDGE Advanced certification is available for new constructions that achieve a minimum of 40% energy savings compared to the base case, applicable to building typologies such as homes, hotels, offices, hospitals, retail, and schools" (EDGE Certification Protocol, Section 2.3: Certification Levels). Option A, new constructions, aligns with this scope, as EDGE focuses on new buildings across supported typologies. Option B, green lease agreements, is not a building type and is outside EDGE's certification framework. Option C, infrastructure constructions, and Option D, parks and landscape projects, are also not covered under EDGE typologies, as confirmed by the EDGE User Guide: "EDGE certification applies to new buildings and major renovations of specific typologies, excluding infrastructure or landscape-only projects" (EDGE User Guide, Section 1.2:

Scope of EDGE Certification). Thus, only new constructions qualify for EDGE Advanced certification.

Reference:EDGE Certification Protocol, Section 2.3: Certification Levels; EDGE User Guide Version 2.1, Section 1.2: Scope of EDGE Certification.

NEW QUESTION # 15

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Nowadays certificates are more and more important for our job-hunters because they can prove that you are skillful to do the jobs in the certain areas and you boost excellent working abilities. Passing the test of EDGE-Expert certification can help you find a better job and get a higher salary. With this target, we will provide the best EDGE-Expert Exam Torrent to the client and help the client pass the exam easily if you buy our product.

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