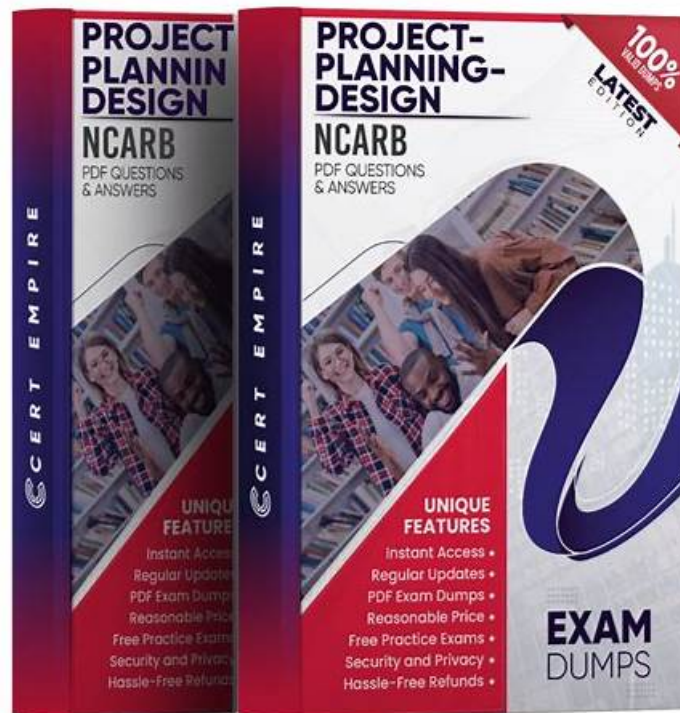


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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q22-Q27):

### NEW QUESTION # 22

An architect is selecting a mechanical system for the first floor of a hotel in a temperate climate. They must consider the following:

- \* The building footprint covers 95% of the small urban site.
- \* The first floor has an open floor plan that includes a lobby, bar, and restaurant.
- \* The plan can only accommodate one 500 sf mechanical room.

What mechanical system should the architect recommend?

- **A. Variable refrigerant flow system**
- B. Packaged terminal air conditioners
- C. Geothermal heat pump

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Variable Refrigerant Flow (VRF) systems are ideal for buildings with space constraints and diverse internal loads. They provide zoned heating and cooling from a compact mechanical room and allow flexibility with open floor plans by serving multiple zones with variable refrigerant volumes.

Geothermal heat pumps (A) require larger mechanical or ground loop spaces and are less practical in tight urban footprints.

Packaged terminal air conditioners (B) serve individual rooms and require space for multiple units and wall penetrations, which may not be feasible in this context.

Hence, VRF systems balance space efficiency, energy performance, and zoning flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC Systems

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Systems

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### NEW QUESTION # 23

A site has been engineered with a 1:20 grade.

Which of the following sidewalk designs would be the most cost-effective way to get from the top to the bottom and still be in compliance with the accessibility standards?

- A. Cutting diagonally across the slope at 1:10 with a handrail
- **B. Cutting diagonally across the slope at 1:12 with no handrail**
- C. At the same grade as the slope with no handrail
- D. Switchback ramps at 1:12 with a handrail

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A 1:20 slope means a 5% grade (1 vertical unit per 20 horizontal units), which is slightly steeper than the ideal maximum slope for accessible ramps.

\* Option C: Cutting diagonally across the slope at 1:12 (~8.33%) slope without a handrail is the most cost-effective design that still complies with accessibility standards. According to the Americans with Disabilities Act (ADA) and ICC A117.1, the maximum slope for an accessible ramp is 1:12. Handrails are required on ramps with a rise greater than 6 inches (150 mm). If the rise is less than 6 inches, handrails are not required.

Because the diagonal cut reduces the slope to 1:12 and the total rise is likely less than 6 inches given the gentle 1:20 original slope, handrails are not mandatory, making this solution economical and code compliant.

\* Option A: Switchback ramps at 1:12 with handrails are compliant but more expensive due to increased construction complexity and space requirements.

\* Option B: A 1:10 slope (10%) exceeds the maximum allowed slope for accessible ramps and requires handrails, thus non-compliant.

\* Option D: Following the existing 1:20 slope without modification does not provide the maximum accessibility slope and may be acceptable but might not comply with certain stricter local codes for ramps.

Therefore, Option C balances accessibility, cost, and compliance optimally.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Site Accessibility and Grading ADA Standards for Accessible Design (2010) ICC A117.1 Accessibility Standards The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Site Planning and Accessibility

#### NEW QUESTION # 24

A client asks that a lighting system be designed using the initial lamp lumen output. Which of the following effects would this request have on the standard light design?

- A. It will decrease the number of lamps.
- **B. It will increase the number of lamps.**
- C. It will increase the glare.
- D. It will decrease the glare.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Designing lighting systems based on initial lamp lumen output (the maximum light output when lamps are new) without accounting for lumen depreciation (light loss over time) typically leads to increased number of lamps or fixtures to compensate for future light loss, ensuring adequate illumination throughout the system's life.

This approach does not directly affect glare (B, D).

It does not decrease the number of lamps (A); it often increases them for safety margin.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Lighting Design

The Architect's Handbook of Professional Practice, 15th Edition - Lighting

#### NEW QUESTION # 25

Structural costs for wind resistance increase exponentially as building height is increased, primarily due to which of the following factors? Check the two that apply.

- A. Snow and rain loads increase on the roof portion of the structure.
- **B. Wind pressure is greater at higher surfaces.**
- C. Live load increases as the number of stories increase.
- D. Dead load increases as the number of stories increases.
- **E. There is a need for control of excessive drift at higher floors.**
- F. Use of precast panels instead of metal/glass panels increase costs.

**Answer: B,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As building height increases, wind pressures acting on the building surfaces increase because wind speed generally increases with elevation due to reduced friction from ground features (A).

Additionally, taller buildings experience larger lateral displacements (drift), requiring more complex structural systems and stiffer frames to control excessive drift for occupant comfort and structural safety (E).

This requirement significantly increases structural costs.

Dead load (B) and live load (D) increase with stories but do not increase exponentially or primarily affect wind resistance costs.

Snow and rain loads (C) mostly affect the roof, not height-related wind loads.

Choice of cladding materials (F) impacts cost but is not a primary reason for exponential wind resistance cost increases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind Loads and Structural Costs

#### NEW QUESTION # 26

A divisional cost breakdown method of cost estimating has which of the following advantages over a cost per square foot method of cost estimating?

- A. It is useful for generic buildings.
- B. It provides a simple method to calculate costs.
- C. It provides a quick reference or check at the early design stages.
- **D. It is useful throughout design and construction of the project.**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The divisional cost breakdown method organizes project costs by divisions (e.g., site work, concrete, finishes), which allows for detailed tracking and estimation of costs throughout design and construction phases. This method is more comprehensive and flexible compared to the simple cost per square foot method, which is primarily useful early in design for rough order-of-magnitude estimates.

Therefore, the divisional method's key advantage is its usefulness throughout the project lifecycle for cost management, enabling more accurate updates and adjustments as design progresses.

References:

ARE 5.0 PPD - Project Costs and Budgeting

The Architect's Handbook of Professional Practice, 15th Edition - Cost Estimating and Control

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## NEW QUESTION # 27

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