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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Codes & Regulations: This section of the exam measures the skills of project architects and focuses on applying zoning laws, environmental rules, and building codes during the planning stage. Candidates are tested on how to integrate multiple regulatory requirements into a project's design effectively.
Topic 2	<ul style="list-style-type: none"> Environmental Conditions & Context: This section of the exam measures skills of architectural designers and covers how to use site analysis information to determine building placement and environmental planning decisions. It emphasizes applying sustainable principles and considering the neighborhood context to guide project design.
Topic 3	<ul style="list-style-type: none"> Project Costs & Budgeting: This section of the exam measures skills of architectural designers and assesses the ability to evaluate design alternatives based on program goals, perform cost evaluations, and manage cost considerations throughout the design process.
Topic 4	<ul style="list-style-type: none"> Building Systems, Materials, & Assemblies: This section of the exam measures skills of architectural designers and covers the understanding of building systems such as mechanical, electrical, and plumbing, along with structural and specialty systems. It also involves selecting appropriate materials and assemblies to align with program needs, budgets, and regulations.
Topic 5	<ul style="list-style-type: none"> Project Integration of Program & Systems: This section of the exam measures skills of project architects and focuses on integrating decisions about environmental conditions, codes, and building systems into one cohesive project design. It highlights how to configure the building and incorporate both program requirements and contextual conditions in a unified design approach.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q69-Q74):

NEW QUESTION # 69

Refer to the exhibit (residential floor plan with three outlined elevator core locations A, B, C).

During design development, an owner has chosen an elevator that does not fit in the location previously selected for the two-car elevator core. The elevator core should be near the main entrance lobby and centrally located. The minimum program requirements for each residential floor are the following:

One bicycle room
Five studios
Five 1-bed units
Eight 2-bed units
Three 3-bed units

Which outlined location meets the requirements?

- A. A
- **B. C**
- C. B

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Location C is centrally located near the main entrance lobby and accommodates program requirements. It aligns with circulation patterns and building massing necessary to support efficient vertical transportation and access to all unit types, including bicycle storage.

Locations A and B are less centralized or do not provide convenient access, making C optimal.

References:

ARE 5.0 PPD - Project Integration of Program and Systems

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

NEW QUESTION # 70

Which of the following types of heating system would be appropriate when the design requires a very compact system that has a low initial cost, is easily zoned, and has a quick response to temperature changes?

- A. Forced air
- **B. Electric**
- C. Hydronic
- D. Combination forced air/hydronic

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Electric heating systems are compact, have low initial installation costs, and can be easily zoned with individual controls. They

provide rapid response to temperature changes, making them suitable where space is limited and quick control is desired. Hydronic systems have slower thermal response and require piping infrastructure. Forced air systems need ductwork and are less compact. Combination systems increase complexity and cost.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Heating Systems

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

NEW QUESTION # 71

Which of the following is the most effective way to reduce noise in mechanical air delivery systems?

- A. Reduce the free area of the supply air grille
- **B. Increase the size of the ductwork**
- C. Provide exterior duct insulation

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Noise in mechanical air delivery systems is often caused by high air velocity and turbulence within ducts, which generate sound that can be transmitted to occupied spaces.

Increasing the size of the ductwork (A) lowers the air velocity for a given volume of air flow, which reduces turbulence and noise generation inside the duct. Larger ducts allow air to move more quietly and efficiently.

Exterior duct insulation (B) can reduce noise transmission through the duct walls but is less effective at controlling the noise generated by airflow itself inside the duct.

Reducing the free area of the supply air grille (C) increases velocity at the grille, potentially increasing noise at the outlet and causing discomfort.

Therefore, the most effective strategy is increasing duct size to reduce air velocity and noise.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC and Acoustics

NEW QUESTION # 72

According to model codes, wind pressure can be positive on the roof of a low-rise building when wind is which one of the following?

- A. Parallel to the ridge and roof slope is 30 to 45 degrees
- B. Parallel to long side and the roof is flat
- C. Perpendicular to ridge and roof slope is 15 degrees
- **D. Perpendicular to ridge and roof slope is 30 to 45 degrees**

Answer: D

Explanation:

Wind pressure on a building's roof can be either positive (pressure pushing down on the surface) or negative (suction or uplift). The distribution of pressure depends largely on wind direction relative to the building geometry and roof slope.

* Option C: When wind strikes the roof perpendicular to the ridge with slopes between 30 and 45 degrees, the wind creates a positive pressure on the windward side of the roof. This is because the air impinges directly onto the sloped surface, pushing downward and exerting positive pressure. The leeward side of the roof, by contrast, experiences negative pressure (suction). This condition is well documented in ASCE 7 and reflected in the IBC (International Building Code) wind load provisions.

* Option A: Wind parallel to the long side with a flat roof typically causes mostly negative pressures (suction) on the roof, not positive pressures, because the airflow accelerates over the roof surface.

* Options B and D: At lower roof slopes (like 15 degrees) or when the wind is parallel to the ridge with moderate slopes, the roof usually experiences suction (negative pressure) rather than positive pressure.

The flatter or more parallel the surface is relative to wind flow, the more suction effects dominate.

Positive wind pressure on roofs is important for structural design because it influences the design of roofing systems, connections, and overall structural loads. Understanding when and where positive pressure occurs ensures proper anchorage and prevents failures due to uplift or overturning forces.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Effects ASCE 7-

NEW QUESTION # 73

A one-story residence in a dry climate with cold winter nights is designed with an unconditioned dirt floor crawlspace utilizing underfloor plumbing and HVAC ductwork. The owner is interested in using a concrete slab-on-grade floor instead of the pier-and-beam concrete floor over an open crawlspace as originally designed.

What are the impacts of changing the design to a slab-on-grade floor system? Check the two that apply.

- A. It will allow for better moisture control.
- B. It will allow for HVAC ductwork installation.
- C. It will have more steel reinforcing.
- **D. It will limit future plumbing flexibility.**
- **E. It will have warmer floors in the evenings.**
- F. It will limit the types of flooring finishes available.

Answer: D,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Changing from a pier-and-beam system with an open crawlspace to a slab-on-grade floor has several impacts:

Warmer floors in the evenings (A): Concrete slab-on-grade floors have high thermal mass, which can absorb heat during the day and release it slowly, resulting in warmer floors at night, particularly beneficial in cold climates.

Limited future plumbing flexibility (C): Plumbing embedded in or beneath slabs is difficult to access or modify after construction, unlike crawlspaces that provide easier access to underfloor plumbing for repairs or modifications.

More steel reinforcing (B): While slabs do require reinforcement, this is often comparable or less than the framing required for pier-and-beam floors, so this is not necessarily an impact.

Flooring finishes (D): Slab floors can accommodate many finishes; thus, limitations are generally minimal.

Better moisture control (E): Slabs require moisture barriers and careful detailing to control moisture; crawlspaces can sometimes be easier to ventilate but may allow moisture intrusion if not properly designed.

HVAC ductwork installation (F): Crawlspaces allow ducts to be located under the floor; slabs typically require ducts to be placed above or within conditioned spaces.

Thus, the most significant impacts are warmer floors and reduced plumbing flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Foundations and Floors

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

NEW QUESTION # 74

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