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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	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	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.
Topic 3	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 4	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	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.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q90-Q95):

NEW QUESTION # 90

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. The school is located in a temperate coastal climate that requires almost equal heating and cooling days during the year. Good indoor air quality and increased energy efficiency are priorities.

Given the building use and site location, which of the following approaches should be used for the mechanical system in the school?

- A. Evaporative Cooling and Trombe Wall
- **B. Geothermal System**
- C. Hydronic Convection System
- D. Single Duct Constant Air Volume (CAV)

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A geothermal system is highly efficient for climates requiring balanced heating and cooling, such as temperate coastal zones. It provides stable, efficient temperature control and good indoor air quality.

Hydronic convection (A) and CAV systems (C) are less efficient and have slower response.

Evaporative cooling and Trombe walls (D) are best for dry climates.

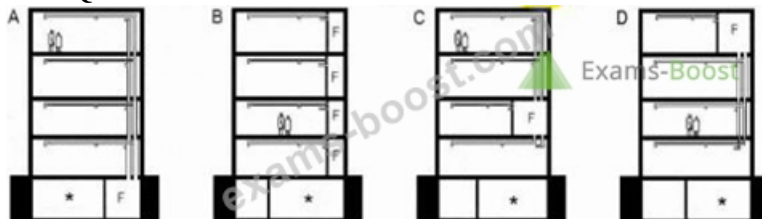
Geothermal HVAC systems support sustainability goals in schools with fluctuating heating/cooling needs.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Mechanical Systems

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

NEW QUESTION # 91



Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

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

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning.

which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

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

NEW QUESTION # 92

Program requirements for a hospital with a clear span of 70 feet include minimal disruption of the hospital routine for future mechanical and electrical repairs and alterations and a maximum economical flexibility of the structure.

Which of the following structural systems is most appropriate?

- A. Interstitial trusses
- B. Plate girders
- C. Composite floor beams
- D. Precast concrete planks

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Interstitial trusses provide a structural space between floors specifically designed for mechanical and electrical systems, allowing future repairs and alterations without disrupting hospital routines. This system supports large spans and offers flexible layouts, aligning well with the hospital's needs.

Plate girders (B) and composite beams (C) do not inherently provide interstitial spaces and can limit flexibility.

Precast concrete planks (D) are durable but limit access to mechanical systems, increasing disruption during maintenance.

Therefore, interstitial trusses best support minimal disruption and structural flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies

The Architect's Handbook of Professional Practice, 15th Edition - Structural Systems for Healthcare

NEW QUESTION # 93

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. Perpendicular to ridge and roof slope is 15 degrees
- C. Parallel to long side and the roof is flat
- 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.

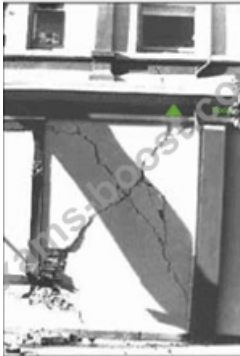
* Options B and D: At lower roof slopes (like 15 degrees) or when the wind is parallel to the ridge with moderate slopes, the roof usually experiences suction (negative pressure) rather than positive pressure.

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:

NEW QUESTION # 94



Refer to the exhibit (photo showing diagonal cracks in a wall).

The structural damage evident in the photograph illustrates a classic example of failure due to which of the following?

- A. In-plane shear
- B. Overturning
- C. Excessive diaphragm flexure

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The diagonal cracking pattern seen in the photo is characteristic of in-plane shear failure in structural walls or diaphragms. In-plane shear occurs when lateral forces (such as seismic or wind loads) act parallel to the plane of the wall, causing it to deform in shear. This results in diagonal tension cracks typically forming at roughly 45 degrees, as shown in the image.

Overturning (Option A) refers to the rotation of a wall or structural element about its base or a pivot point due to lateral forces. Overturning typically causes tension cracks at the base or separation at connections rather than diagonal shear cracks.

Excessive diaphragm flexure (Option C) causes bending deformations in horizontal diaphragms such as floors or roofs, usually leading to different cracking patterns, such as horizontal or vertical flexural cracks.

This type of in-plane shear failure is critical to identify for seismic design, as walls or diaphragms must be detailed to resist shear forces to prevent such damage.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Seismic and Lateral Force Design The Architect's Handbook of Professional Practice, 15th Edition - Structural Systems NCARB Seismic Design Guidelines

NEW QUESTION # 95

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