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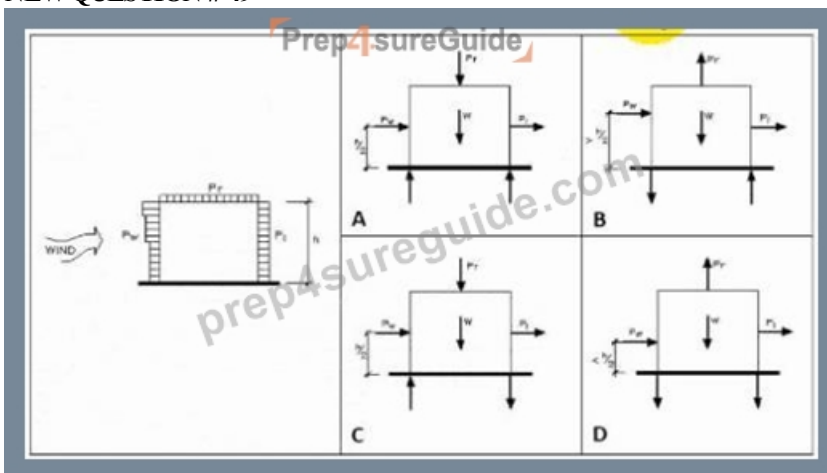
NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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 5	<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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q49-Q54):

NEW QUESTION # 49



Refer to the exhibit (building subjected to wind with force diagrams A, B, C, D).

Which of the force diagrams shown correctly represents the resultant wind forces causing an overturning effect on the building and the forces that resist this overturning effect? (Direction and point of application of forces are to be considered; magnitude of forces is not.)

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

Answer: A

Explanation:

The diagram shows a building exposed to wind loading, which causes lateral pressure (P_w) on the windward wall and suction (negative pressure) on the leeward wall, generating an overturning moment about the base of the building.

* Diagram A correctly shows:

* The wind pressure (P_w) pushing on the windward wall, producing a lateral force applied at approximately two-thirds the building height (h), which tends to overturn the building.

* The wind suction (P_l) pulling on the leeward wall, acting in the opposite direction but also contributing to the overturning moment.

* The reaction forces at the base resist this overturning: an uplift force (negative vertical reaction) on the windward side and a downward force on the leeward side, counterbalancing the moment.

* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and

the corresponding resisting forces.

NCARB ARE 5.0 PPD guidelines on environmental conditions emphasize understanding wind load effects, including lateral pressures, suction, overturning moments, and foundation reactions essential for structural design and safety.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Structural Response

ASCE 7-16: Minimum Design Loads for Buildings and Other Structures (Wind Load Provisions) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 50

Examples of regulatory controls include which of the following elements? Check the four that apply.

- A. Environmental management
- B. Socio-political demographics
- C. Fire protection
- D. Master plans
- E. Economic models
- F. Historic designation

Answer: A,C,D,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Regulatory controls are governmental or authoritative rules that regulate land use, building design, and environmental protection.

Master plans (A): Provide regulatory frameworks guiding development.

Environmental management (B): Includes regulations on land, water, and air quality.

Fire protection (C): Enforced through codes and regulations.

Historic designation (E): Regulates preservation and alterations of historic sites.

Socio-political demographics (D) and economic models (F) are influential factors but are not regulatory controls.

References:

ARE 5.0 PPD - Codes and Regulations

The Architect's Handbook of Professional Practice, 15th Edition - Land Use Controls

NEW QUESTION # 51

An architect is designing a mixed-use building and must provide fire separation between the various use types. Which properties must be considered to meet the fire separation requirements? Check the three that apply.

- A. Orientation of building
- B. Length of exit corridor
- C. Air changes per hour
- D. Wall to structure connection
- E. Occupancy type
- F. Wall assembly materials

Answer: D,E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To meet fire separation requirements, the following must be considered:

Occupancy type (B): Different uses have different fire hazard classifications influencing separation.

Wall assembly materials (D): Materials define fire resistance ratings.

Wall to structure connection (A): Proper connection maintains fire separation integrity.

Air changes (C) relate to ventilation, not separation.

Exit corridor length (E) and building orientation (F) affect egress and solar exposure, not fire separation.

References:

ARE 5.0 PPD - Codes and Regulations, Fire Separation

The Architect's Handbook of Professional Practice, 15th Edition - Fire-Resistive Construction

NEW QUESTION # 52

A church congregation has hired an architect to help them determine the feasibility of converting a retail strip mall space into a new church. The space is 30' wide and 125' long and is in an interior location with tenants on both long sides. The client has requested the following:

Natural light into the central gathering space

Nursery space for young children

Church office space

Adequate restrooms

Visually appealing landscaping

Which of the following should the architect consider to help determine if the project can move forward?

Check the three that apply.

- A. Conduct a demographic survey to determine the number of children to be served by the nursery.
- B. Investigate the existing water and sewer services to determine their adequacy for the new use classification.
- C. Check the existing roof structure to determine potential locations for skylights.
- D. Analyze the existing building exits to determine their adequacy for the new use classification.
- E. Conduct a demographic survey of church membership to determine the capacity of the new restrooms.
- F. Engage a landscaping consultant to determine visually appealing landscaping options.

Answer: B,C,D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When converting a retail strip mall to a church, the architect must verify that the existing building infrastructure supports the new occupancy:

(A) Exits and egress must be adequate per fire and life safety codes for assembly occupancy.

(B) Roof structure must be evaluated for installing skylights to bring natural light into central spaces.

(C) Water and sewer services need to support increased demand, especially with added restrooms and nursery.

Demographic surveys (D, E) inform program design but do not determine feasibility.

Landscaping consultants (F) are part of later design phases, not initial feasibility.

References:

ARE 5.0 PPD - Project Integration of Program and Systems

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

NEW QUESTION # 53

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck.

Other considerations for the project include:

* Protected tree requirements are defined in the PD document.

* Easy pedestrian access must be provided from Sycamore Boulevard.

* All required parking for the clinic must be accommodated on site.

* Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).

* Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.

* All service equipment needs to be screened; see PD document for restrictions.

* Signage opportunities are important to the client.

* Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

* Drawings, including a perspective, plans, and exterior elevations

* Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)

- * Exterior Material Cost Comparisons
 - * Planned Development Document
 - * IBC Excerpts, showing relevant code sections
 - * ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design Refer to the exhibit.
- What is the required wall finish for rooms 1201 through 1206 on the first floor?

- **A. Wall finishes shall be smooth, scrubbable, and water-resistant.**
- B. Wall finishes shall have sealed seams that are tight and smooth.
- C. Wall finishes shall be free of fissures, open joints, or crevices that may retain or permit passage of dirt particles.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Rooms such as medical treatment or healthcare spaces require wall finishes that are smooth, scrubbable, and water-resistant to maintain hygiene and allow for regular cleaning and disinfection.

Tight, sealed seams (A) and absence of fissures (B) are important but part of broader requirements.

The key is surfaces that can withstand cleaning agents and moisture exposure without damage.

This ensures compliance with healthcare facility codes and infection control.

References:

IBC - Healthcare Facilities Chapter

ADA Standards for Accessible Design

ARE 5.0 PPD - Codes and Regulations, Healthcare

NEW QUESTION # 54

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