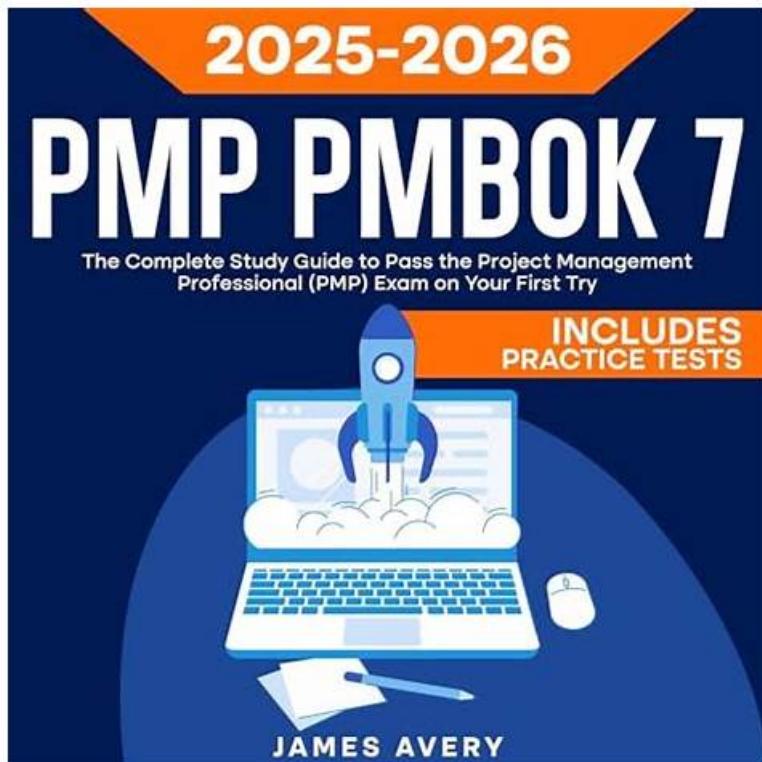


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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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 4	<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 5	<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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q63-Q68):

NEW QUESTION # 63

An architect is designing an office building on an infill lot. The client wants to look at site design strategies to prevent erosion and collection of excess surface water resulting from the new construction.

Which one of the following strategies directly addresses the client's requirement?

- A. Install horizontal overhangs
- B. Install a catchment area
- C. **Install pervious paving**

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Pervious paving allows water to infiltrate through surfaces, reducing runoff and preventing erosion and surface water accumulation on site. It is an effective stormwater management technique suited to infill sites where space is limited.

A catchment area (B) collects water but does not prevent erosion or surface water by itself.

Horizontal overhangs (C) provide shading and weather protection but do not affect surface water runoff.

NCARB PPD guidelines emphasize permeable surfaces as key components of sustainable site design to manage stormwater onsite.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site and Stormwater Design The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Site Design

NEW QUESTION # 64

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.

The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.

Considerations for the renovation include:

- * The relocated front entrance must be easily recognizable, highly visible, and secure.
- * Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.

* Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.

After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.

Building information:

- * Construction Type is II-B.

The following resources are available for your reference:

- * Existing Plans, including site and floor plans
- * Proposed Plans, including site and floor plans
- * Cost Analysis
- * Zoning Ordinance Excerpts, for off-street parking requirements
- * IBC Excerpts, showing relevant code sections
- * ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design

Which of the following is the maximum height the platform can be above the gymnasium floor per the proposed design?

- A. 1'-9"
- B. 2'-6"
- **C. 1'-6"**

Answer: C

Explanation:

Per building and accessibility codes (such as ADA and IBC), raised platforms or stages in assembly areas like gymnasiums are limited in height to ensure safe access and egress. A maximum height of 1 foot 6 inches (18 inches) without requiring additional stairs or ramps is common to allow easy transition and avoid additional egress requirements.

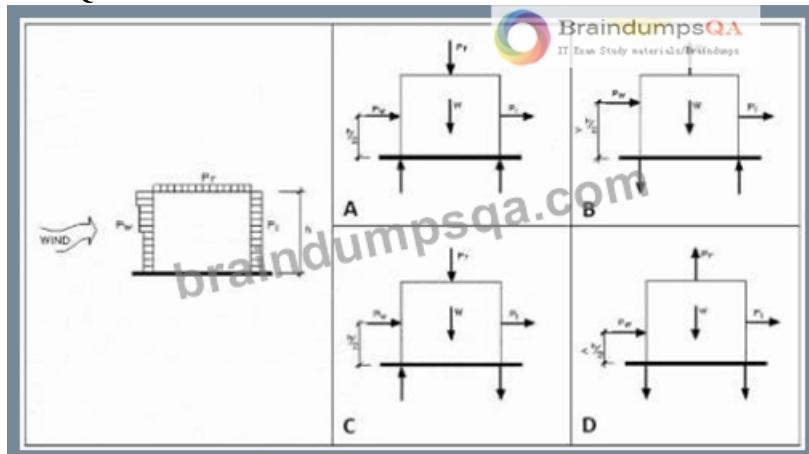
Heights above 18 inches typically require stairs or ramps per ADA.

1'-9" or 2'-6" exceed these limits and would trigger additional code requirements.

References:

- IBC Chapter 10 - Means of Egress
- ADA Standards for Accessible Design
- ARE 5.0 PPD - Codes and Regulations

NEW QUESTION # 65



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. D

- C. C
- D. B

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.

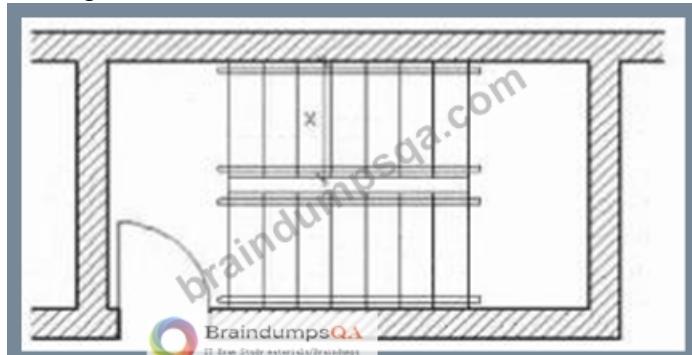
* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and the corresponding resisting forces.

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 # 66



Refer to the exhibit (stair connecting four stories, occupant load 100, not accessible exit).

Not including the permitted projection for handrails and stringers, what is the minimum clear width of the stair at dimension X?

- A. 44 inches
- B. 48 inches
- C. 60 inches
- D. 36 inches

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For stairs serving 100 occupants, building codes such as IBC require a minimum clear width of 44 inches to accommodate occupant egress.

36 inches is typical minimum for stairs serving smaller occupant loads.

Wider widths like 48 or 60 inches are required for higher occupant loads.

Handrails and projections may reduce nominal width but are not included in minimum clear width measurements.

References:

ARE 5.0 PPD - Codes and Regulations, Egress Requirements

IBC 2018 Chapter 10 - Means of Egress

NEW QUESTION # 67

An architect is working with a developer to determine which of three available sites should be the preferred location for a new office

building that will primarily utilize passive energy systems. All three sites are located in a cold, northern climate with winter winds predominantly from the north and west.

Site descriptions:

Site A: Located at the top of a hill; small vegetation and brush; expansive views in all directions.

Site B: Located along a river; heavily wooded area on the north side; coniferous trees shading the southern face of the building.

Site C: Located on a rocky, south-facing slope; wooded on the eastern edge; native grasses on southern boundary.

Primary goal: maximize solar energy potential while maintaining winter wind protection.

Which site should be selected?

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

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Site C offers a south-facing slope, which maximizes solar exposure-crucial in cold climates for passive solar heating. The wooded eastern edge provides wind protection from cold morning winds, and native grasses on the south reduce erosion while minimally shading.

Site A, on a hilltop with sparse vegetation, lacks wind protection.

Site B has coniferous trees shading the southern face, reducing solar gain, which is counterproductive for passive solar design.

Thus, Site C optimizes both solar potential and wind protection.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Passive Solar Design The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Site Planning

NEW QUESTION # 68

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