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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 4	<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 5	<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.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q15-Q20):

NEW QUESTION # 15

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.

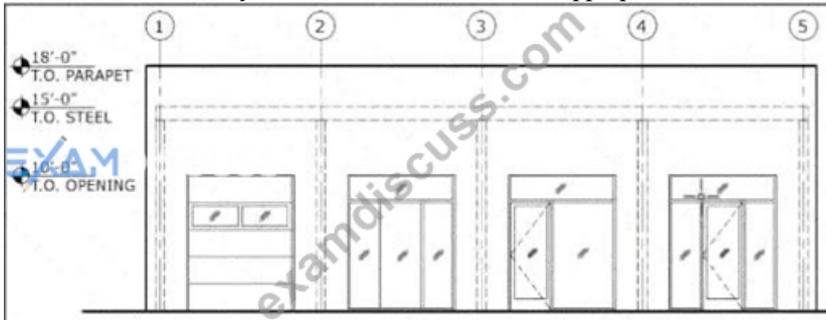
References:

ARE 5.0 PPD - Environmental Conditions and Context, Lighting Design

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

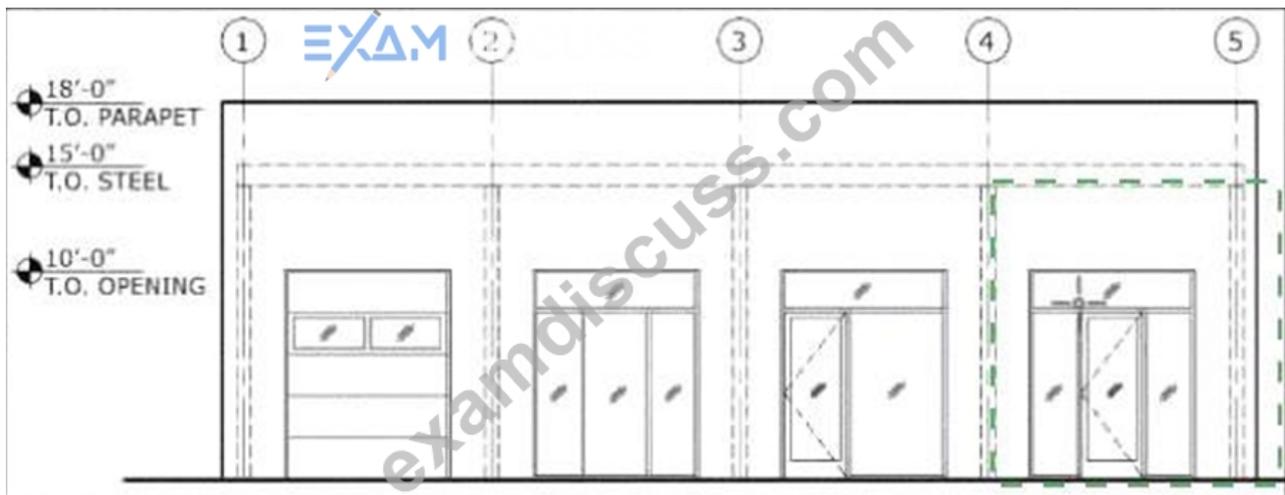
NEW QUESTION # 16

Click in the structural bay of the elevation that is the most appropriate location to install steel rod cross bracing.



Answer:

Explanation:



Explanation:

the most appropriate location to install steel rod cross bracing is in the fourth structural bay, which corresponds to the bay on the far right side of the elevation.

* Steel rod cross bracing is typically installed in bays that are fully open or contain large door openings and require lateral support to resist racking forces (lateral loads such as wind or seismic forces).

* The fourth bay shows a large door opening without any visible solid wall or shear wall elements, making it structurally weaker against lateral loads and thus the most suitable for cross bracing.

* The first bay, with a smaller door or solid wall, and the other bays with more enclosed or glazed openings may have other structural elements providing lateral resistance.

* Installing the bracing in the fourth bay enhances structural stability and prevents lateral displacement or deformation.

NEW QUESTION # 17

Which of the following roofing types is the most appropriate for installation during below-freezing weather conditions on a roof with less than a 2:12 slope?

- A. A ballasted EPDM roof
- B. A self-sealing shingle roof
- C. A cold-tar built-up roof

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Low-slope roofs (< 2:12) require roofing materials suitable for flat or nearly flat conditions:

Cold-tar built-up roofs (A) are difficult to install in freezing weather because the tar cannot be applied or cured properly in cold temperatures.

Self-sealing shingles (B) are generally used on steeper slopes and depend on heat to activate the sealing strips, making them unsuitable for low slopes and cold weather.

Ballasted EPDM (C) is a single-ply synthetic rubber membrane that can be installed in a variety of weather conditions, including below-freezing temperatures. The ballast (usually gravel) holds the membrane in place on low slopes and does not rely on adhesives or heat curing.

Therefore, ballasted EPDM is the most appropriate.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Roofing Materials and Systems The Architect's Handbook of Professional Practice, 15th Edition - Roofing

NEW QUESTION # 18

During design development of a new college laboratory facility, the owner asks the architect to include way-finding signage mounted adjacent to doors. The type of signage requested will project into the corridors of the building.

Which of the following should the architect consider when selecting the signage? Check the three that apply.

- A. ADA accessibility requirements
- B. Manufacturer installation information

- C. Local zoning ordinance on signage
- D. Signage material and finish type
- E. IBC exit width requirements
- F. International Energy Code

Answer: A,B,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When signage projects into corridors:

ADA requirements (A) ensure signage is accessible to all, including those with disabilities.

IBC exit width requirements (B) ensure projected signage does not reduce required egress widths.

Manufacturer installation information (F) guides proper, safe mounting and compliance with structural requirements.

Zoning (D) is generally for exterior signage.

Energy code (E) is not related.

Material and finish (C) affect aesthetics but not code compliance.

References:

ARE 5.0 PPD - Codes and Regulations, Accessibility

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

NEW QUESTION # 19

When laying out access routes and parking lots for an office building, which of the following strategies can increase the security of the site?

- A. Designate parking areas based on defined user groups
- B. Provide an equal amount of parking spaces on each side of the building
- C. Integrate shipping and receiving in one location
- D. Provide public access to all parking areas

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Designating parking areas for different user groups (e.g., employees, visitors, service vehicles) helps control access, monitor activity, and reduce unauthorized entry, improving site security.

Equal parking on all sides (A) does not affect security.

Integrating shipping and receiving (C) may improve logistics but not necessarily security.

Providing public access to all parking (D) can increase security risks.

NCARB PPD guidelines emphasize zoning and controlled access as key security strategies.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site Security

The Architect's Handbook of Professional Practice, 15th Edition - Crime Prevention Through Environmental Design (CPTED)

NEW QUESTION # 20

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