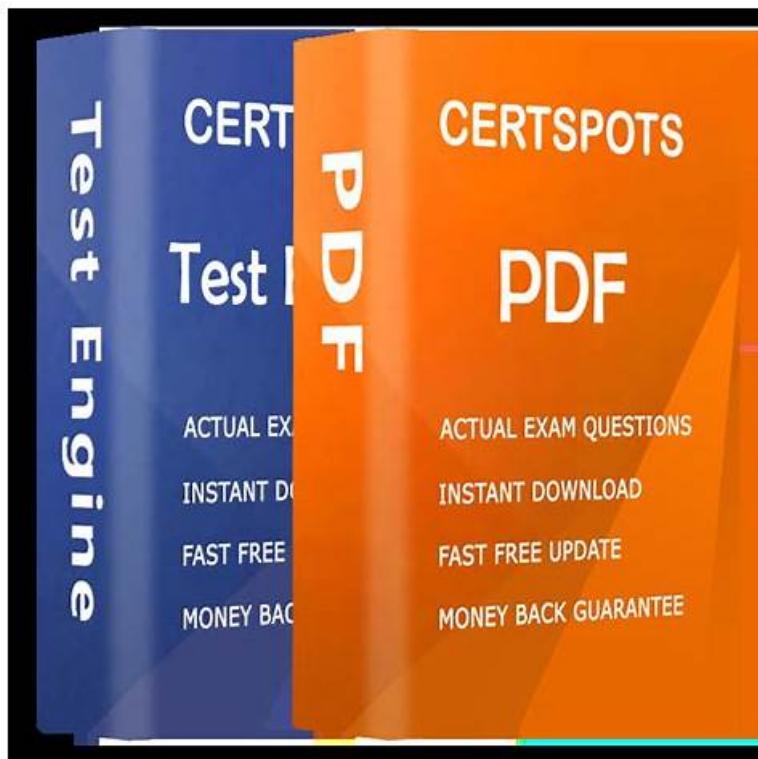


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NCARB Project-Planning-Design Exam Syllabus Topics:

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">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 3	<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 4	<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 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 (Q17-Q22):

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

An architect is developing a master plan for a small area of a city located on a lake. The master plan has four open sites being considered for a proposed park. The city needs to avoid incoming noise pollution at the park and provide a variety of activities for the city.

Click on the open site that is appropriate for a city park with baseball fields and nature trails.

□

Answer:

Explanation:

Explanation:

open site directly adjacent to the industrial zone

It is away from the airport noise to the west.

It is separated from the residential low-rise and waterfront areas, reducing impact on sensitive neighbors.

It provides enough space and separation from commercial and retail zones (right map).

It avoids the smaller open sites on the waterfront and retail area, which are constrained and may be affected by residential noise concerns or limited in size.

NEW QUESTION # 19

Refer to the exhibit (louvered sunscreen cantilevered with beam). Assume the cantilevered beam is weightless.

Which of the following is the moment diagram?

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

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For a cantilevered beam loaded uniformly (such as a louvered sunscreen), the bending moment diagram is characterized by:

Maximum negative moment (hogging moment) at the fixed support (where the beam is anchored to the building). This is a large negative moment because the beam is fixed and resists rotation.

The moment decreases linearly to zero at the free end of the cantilever.

Diagram C shows this pattern with maximum moment at the support tapering to zero at the free end, consistent with static beam theory.

Other diagrams show positive moments or incorrect distributions.

This is a standard result taught in structural mechanics and referenced in ARE guidelines related to structural systems.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Systems

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

NEW QUESTION # 20

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

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

Answer: A,B,D,E

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 # 21

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

The client proposes massing changes to the current design as well as programming for future phases.

Which of the following scenarios is permitted?

- A. Program the next phase on the adjacent vacant site for inpatient services.
- B. Design an additional parking lot for use by local businesses after office hours.
- C. Combine the two phases into a single six-story building.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Under the Planned Development (PD) document constraints and the mixed-use setting:

Option C is permitted: Designing additional parking that can be shared with local businesses after office hours promotes efficient land use and aligns with mixed-use development goals. Shared parking arrangements are often encouraged in PD documents to maximize utilization and reduce overall parking demand.

Option A is likely restricted as the PD document specifically governs use types and programming; inpatient services may not be allowed or permitted without separate approvals.

Option B combining two phases into a single taller building would typically violate PD restrictions on building height, massing, or gross floor area, unless explicitly allowed.

Therefore, only option C is permitted without additional regulatory hurdles.

References:

Planned Development Document

ARE 5.0 PPD - Project Integration of Program and Systems

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

NEW QUESTION # 22

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