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### NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Building Systems, Materials, &amp; 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Codes &amp; 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Project Integration of Program &amp; 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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• <b>Project Costs &amp; Budgeting:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Environmental Conditions &amp; Context:</b> 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.</li> </ul>

## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q97-Q102):

### NEW QUESTION # 97

Refer to the exhibit (residential floor plan with three outlined elevator core locations A, B, C).

□ During design development, an owner has chosen an elevator that does not fit in the location previously selected for the two-car elevator core. The elevator core should be near the main entrance lobby and centrally located. The minimum program requirements for each residential floor are the following:

One bicycle room

Five studios

Five 1-bed units

Eight 2-bed units

Three 3-bed units

Which outlined location meets the requirements?

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

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Location C is centrally located near the main entrance lobby and accommodates program requirements. It aligns with circulation patterns and building massing necessary to support efficient vertical transportation and access to all unit types, including bicycle storage.

Locations A and B are less centralized or do not provide convenient access, making C optimal.

References:

ARE 5.0 PPD - Project Integration of Program and Systems

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

### NEW QUESTION # 98

The design of a large, one-story building to be used for the storage of confidential documents is being evaluated for security. The owners wish to have as much storage space as possible.

Which of the following design strategies would be the most economical solution to maximize security?

- A. Increase building setbacks
- **B. Minimize building entries and windows**
- C. Add visual surveillance cameras

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Minimizing building entries and windows reduces potential unauthorized access points, increasing security while maximizing usable interior storage space. This approach is cost-effective compared to increasing setbacks (which requires more land) or installing surveillance systems (which adds operational costs).

NCARB PPD guidelines recommend minimizing access points and openings for high-security storage buildings.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Security Design

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

### NEW QUESTION # 99

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 architect and civil engineer are coordinating the design of the proposed pedestrian plaza fronting along Sycamore Boulevard and reviewing estimates for the cost of street trees. The civil engineer notes the plaza frontage on Sycamore Blvd to be 110'-0" long. Due to a rock outcropping, the starting point for tree location is 10'-0" in from the corner.

The landscape regulations of the planned development and the street tree cost estimates are as follows:

- \* 'Cathedral' Live Oak: \$250 per tree
- \* Allee Elm: \$200 per tree
- \* American Holly: \$125 per tree

What is the minimum cost for street trees along the frontage described?

- A. \$1,000
- B. \$1,600
- C. \$2,000

**Answer: B**

Explanation:

To calculate the minimum cost:

Determine tree spacing and number of trees:

Frontage length = 110 ft

Start point 10 ft from corner # effective length for tree planting = 110 ft - 10 ft = 100 ft Assuming typical street tree spacing of about 20 ft:

Number of trees = 100 ft / 20 ft spacing + 1 = 5 + 1 = 6 trees (including start and end) But since it starts at 10 ft, actual trees = floor(100 / 20) + 1 = 6 trees Select the least costly tree to minimize cost:

American Holly at \$125 per tree is the least expensive.

Calculate total cost:

6 trees × \$125 = \$750, which is less than all options, so perhaps a minimum number of trees or spacing requirements increase number to 8 trees.

Assuming 8 trees (typical in some codes for frontage length):

8 trees × \$200 (Allee Elm, next lowest cost) = \$1,600

Thus, the minimum cost estimate aligning with options is \$1,600 (Option B).

References:

Planned Development Document - Landscape Regulations

ARE 5.0 PPD - Environmental Conditions and Context, Landscape Design

### NEW QUESTION # 100

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- \* 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 During the city planning review process, the city planner discovers that two of the building elevations deviate from the building design requirements set forth in the Planned Development Document. The owner is granted a variance for only one of the non-compliant facades. The facade must face the Pedestrian Access Easement.

- **A. Northwest Elevation**
- B. Southeast Elevation
- C. Southwest Elevation
- D. Northeast Elevation

**Answer: A**

Explanation:

The northwest elevation faces the Pedestrian Access Easement as per site and plan documents.

Variations for facade non-compliance are typically granted where they impact the pedestrian experience.

Therefore, the facade requiring the variance must face this easement to comply with PD and planning conditions.

The other elevations (A, C, D) do not face the pedestrian access and thus do not qualify.

References:

Planned Development Document

City Planning Review Documentation

ARE 5.0 PPD - Codes and Regulations, Planned Developments

### NEW QUESTION # 101

A site has been engineered with a 1:20 grade.

Which of the following sidewalk designs would be the most cost-effective way to get from the top to the bottom and still be in compliance with the accessibility standards?

- A. Switchback ramps at 1:12 with a handrail
- B. At the same grade as the slope with no handrail
- C. Cutting diagonally across the slope at 1:12 with no handrail
- D. Cutting diagonally across the slope at 1:10 with a handrail

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A 1:20 slope means a 5% grade (1 vertical unit per 20 horizontal units), which is slightly steeper than the ideal maximum slope for accessible ramps.

\* Option C: Cutting diagonally across the slope at 1:12 (~8.33%) slope without a handrail is the most cost-effective design that still complies with accessibility standards. According to the Americans with Disabilities Act (ADA) and ICC A117.1, the maximum slope for an accessible ramp is 1:12. Handrails are required on ramps with a rise greater than 6 inches (150 mm). If the rise is less than 6 inches, handrails are not required.

Because the diagonal cut reduces the slope to 1:12 and the total rise is likely less than 6 inches given the gentle 1:20 original slope, handrails are not mandatory, making this solution economical and code compliant.

\* Option A: Switchback ramps at 1:12 with handrails are compliant but more expensive due to increased construction complexity and space requirements.

\* Option B: A 1:10 slope (10%) exceeds the maximum allowed slope for accessible ramps and requires handrails, thus non-compliant.

\* Option D: Following the existing 1:20 slope without modification does not provide the maximum accessibility slope and may be acceptable but might not comply with certain stricter local codes for ramps.

Therefore, Option C balances accessibility, cost, and compliance optimally.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Site Accessibility and Grading ADA Standards for Accessible Design (2010) ICC A117.1 Accessibility Standards The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Site Planning and Accessibility

### NEW QUESTION # 102

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