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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	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	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	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.

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Test Project-Planning-Design Dumps, Project-Planning-Design New Dumps Sheet

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q48-

Q53):

NEW QUESTION # 48

Which of the following strategies is most appropriate for a new shopping center to be constructed on a nearly flat site flowing into a municipal subsurface storm-drainage system that is at capacity during a 5-year storm?

- A. Grading roads, locating buildings, and sizing culverts to create retention basins
- B. Sectioning, sizing, and pitching drainage ways, culverts, and basins to reduce runoff time
- C. Conducting all site drainage along the curbs of service streets
- D. Extending the storm sewers to catch basins in all roads and drives in the development

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When the municipal storm-drain system is at capacity during frequent storms, site design must incorporate on-site stormwater management to reduce runoff and delay peak flows.

Option B is the most effective strategy: grading the site and positioning buildings and infrastructure to create retention basins allows water to be temporarily stored on site, reducing the volume and rate of runoff entering the municipal system. This also aids in groundwater recharge and helps comply with stormwater management regulations.

Extending storm sewers (A) without capacity improvements only increases burden on an already overloaded system.

Reducing runoff time (C) can exacerbate peak flows by quickly directing water to the storm drains.

Conducting drainage along curbs (D) is standard but does not solve capacity issues if the municipal system is overloaded.

Thus, on-site retention and detention through basin creation is preferred.

References:

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

NEW QUESTION # 49

What is the primary benefit of underground detention with controlled discharge to a waterway?

- A. Ensuring the protection of groundwater purity
- B. Maximizing the developable site area
- C. Providing a new wetlands environment
- D. Minimizing site improvement costs

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Underground detention systems store stormwater beneath the surface, reducing runoff rates by releasing water slowly to waterways. The primary benefit is that they minimize surface land use for detention basins, thereby maximizing the developable site area available for buildings and landscaping.

Groundwater purity protection (A) is managed by treatment practices but is not the primary benefit of detention.

Site improvement costs (C) may increase due to system complexity.

Creating wetlands (D) relates to retention basins, not underground detention.

References:

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

NEW QUESTION # 50

A new gallery is being built and requires shading elements to protect the light-sensitive artwork on display.

Which of the following are design criteria relevant to the design of shading components on the west facade of the new gallery?

Check the three that apply.

- A. Height of the west gallery wall
- B. Annual temperature data
- C. Survey of adjacent building heights

- D. Solar Heat Gain Coefficient of the west glazing
- E. Spacing and depth of vertical louvers
- F. Low-E glazing on the west facade

Answer: A,D,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For shading design on west facades:

Height of the wall (A): Determines the scale and proportion of shading devices.

Solar Heat Gain Coefficient (SHGC) of glazing (C): Influences how much solar radiation passes through windows.

Spacing and depth of vertical louvers (D): Controls shading effectiveness against low-angle afternoon sun.

Low-E glazing (E) helps but is glazing performance, not shading design.

Annual temperature (B) is climatic but less directly relevant.

Adjacent building heights (F) influence shading from surroundings but are secondary.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Solar Control

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

NEW QUESTION # 51

The zoning approval process may involve obtaining which of the following? Check the four that apply.

- A. Special exception
- B. Variance
- C. Building permit
- D. Undue hardship exemption
- E. Conditional use
- F. Grading permit

Answer: A,B,E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Zoning approval can involve:

Variance (A): Permission to deviate from zoning requirements.

Grading permit (C): Approves site grading related to zoning.

Conditional use (D): Allows use under specific conditions.

Special exception (E): Permits uses not normally allowed but granted under certain circumstances.

Building permits (B) are separate from zoning.

Undue hardship exemption (F) is legal but not typically a zoning approval term.

References:

ARE 5.0 PPD - Codes and Regulations, Zoning

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

NEW QUESTION # 52

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

Answer: C

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

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

Calculate total cost:

6 trees $\times$ \$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 $\times$ \$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 # 53

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