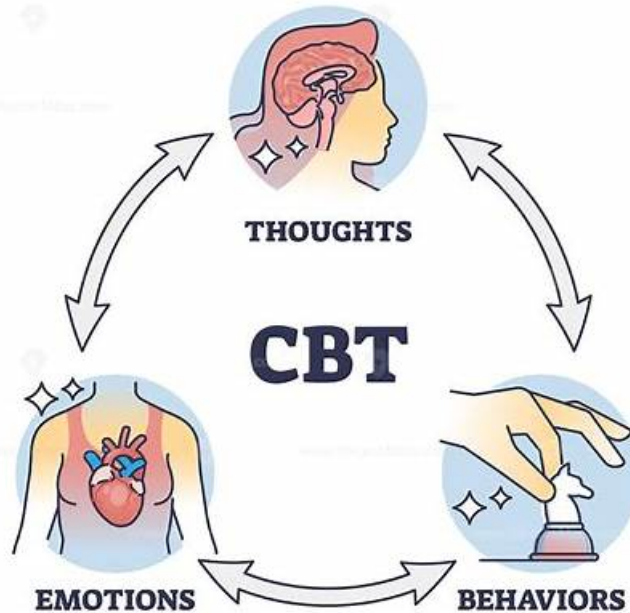


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NCARB Project-Planning-Design Exam Syllabus Topics:

| 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"> 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 3 | <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 4 | <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. |

- **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 (Q19-Q24):

NEW QUESTION # 19

Click on the shading device illustration that most effectively reduces summer solar heat gain through a west-facing window in the Northern Hemisphere.

□

Answer:

Explanation:

□

Explanation:

bottom right (vertical fins or louvers shading the window) is the most effective.

* West-facing windows receive strong, low-angle afternoon sun in the summer, which is difficult to shade with horizontal overhangs because the sun's rays come in at a low angle.

* Vertical shading devices (like fins or louvers) placed perpendicular to the window are most effective in blocking low-angle sunlight from the west.

* The top left and top right images show horizontal shading, which works better for south-facing windows but is less effective for west exposures.

* The bottom left shows multiple horizontal fins, which help but still less effective for west-facing windows compared to vertical fins. According to NCARB ARE 5.0 PPD content on solar shading and passive solar design, vertical shading is preferred for east and west exposures to minimize summer heat gain.

NEW QUESTION # 20

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

Answer: C

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 # 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 Refer to the exhibit.

What is the required wall finish for rooms 1201 through 1206 on the first floor?

- A. Wall finishes shall be free of fissures, open joints, or crevices that may retain or permit passage of dirt particles.
- **B. Wall finishes shall be smooth, scrubbable, and water-resistant.**
- C. Wall finishes shall have sealed seams that are tight and smooth.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Rooms such as medical treatment or healthcare spaces require wall finishes that are smooth, scrubbable, and water-resistant to maintain hygiene and allow for regular cleaning and disinfection.

Tight, sealed seams (A) and absence of fissures (B) are important but part of broader requirements.

The key is surfaces that can withstand cleaning agents and moisture exposure without damage.

This ensures compliance with healthcare facility codes and infection control.

References:

IBC - Healthcare Facilities Chapter

ADA Standards for Accessible Design

ARE 5.0 PPD - Codes and Regulations, Healthcare

NEW QUESTION # 22

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.

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The following resources are available for your reference:

- * Drawings, including a perspective, plans, and exterior elevations
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 - * 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 owner is considering fitting out part of the shell space on the third floor as a cafeteria with tables and chairs and a 1,000-square-foot kitchen. The architect notes that the aggregate occupant load is 325 for the spaces already planned for the third floor and the proposed kitchen.
- What is the net area that can be allocated to the cafeteria before a third exit stair is needed from the third floor?

- A. 4,875 square feet
- **B. 2,625 square feet**
- C. 1,225 square feet

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to IBC egress requirements, the number of exits depends on occupant load and travel distance. For occupant loads over 300, additional exits (such as a third exit stair) may be required.

Given the current occupant load (325 including kitchen), the net area allowed for the cafeteria before requiring a third exit stair can be calculated based on occupant load factors for dining areas (typically about 15 sq ft per occupant).

Multiplying occupant load capacity by occupant load factor yields the net area.

The value 2,625 square feet (Answer B) corresponds to the maximum area before exceeding the occupant load threshold requiring a third exit stair.

References:

IBC Chapter 10 - Means of Egress

ARE 5.0 PPD - Codes and Regulations

NEW QUESTION # 23

Which of the following design elements will affect pedestrian security within a site? Check the four that apply.

- A. Parking quantity
- **B. Type of landscaping**
- **C. Number of site access points**
- **D. Transparency of fences and barriers**

- E. Location of adjacent activity
- F. Impervious pavement

Answer: B,C,D,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Pedestrian security depends on the design and management of the site to reduce hiding spots, increase visibility, and encourage natural surveillance:

Type of landscaping (B): Dense, tall, or thorny plants can deter access or obstruct views, while low, transparent landscaping improves visibility and security.

Number of site access points (D): More access points can increase vulnerability unless properly controlled.

Transparency of fences and barriers (E): Transparent or see-through fences improve visibility and reduce concealment areas, enhancing security.

Location of adjacent activity (F): Adjacent active uses or areas with high foot traffic provide natural surveillance, discouraging crime.

Impervious pavement (A) relates to surface permeability and drainage but not directly to security.

Parking quantity (C) impacts traffic and congestion more than pedestrian security.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site Planning and Security The Architect's Handbook of Professional Practice, 15th Edition - Crime Prevention Through Environmental Design (CPTED)

NEW QUESTION # 24

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