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NCARB Project-Planning-Design certification exam is among those popular IT certifications. It is also the dream of ambitious IT professionals. This part of the candidates need to be fully prepared to allow them to get the highest score in the Project-Planning-Design Exam, make their own configuration files compatible with market demand.

NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q36-Q41):

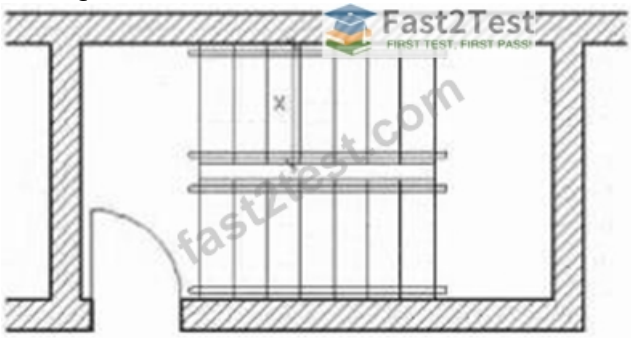
NEW QUESTION # 36
On the site plan, the Phase I building is a 24-hour emergency veterinary clinic. The Phase II building is a boarding kennel for dogs and cats. The cat enclosures will face north for views of the wetlands. Eventually, a landscape architect will design a memorial garden on the northwest area of the site.
The architect needs to locate a service drive for the property and wants to minimize the impact of construction on site vegetation and wildlife.
Click on the property line location on the site plan to indicate the appropriate location for the service drive.

Answer:

Explanation:

Explanation:
east side (Pine Street)
* Locating the service drive along the east side (Pine Street) minimizes disturbance to the wetlands area (northwest part of the site) and existing trees concentrated mostly in the southwest and northwest areas.
* This placement keeps the service drive away from the sensitive wetlands and the planned memorial garden on the northwest, preserving wildlife habitats and mature vegetation.
* It also provides convenient access for service vehicles without crossing or fragmenting critical site features.
* The east side is adjacent to an existing road (Pine Street), making it logical for service access and reducing new disturbance.
This approach aligns with NCARB ARE 5.0 Project Planning & Design guidance for site design prioritizing environmental preservation and minimizing construction impact on sensitive natural areas.

NEW QUESTION # 37



Refer to the exhibit (stair connecting four stories, occupant load 100, not accessible exit).
Not including the permitted projection for handrails and stringers, what is the minimum clear width of the stair at dimension X?

- A. 60 inches
- B. 36 inches
- C. 48 inches
- D. 44 inches

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
For stairs serving 100 occupants, building codes such as IBC require a minimum clear width of 44 inches to accommodate occupant egress.
36 inches is typical minimum for stairs serving smaller occupant loads.
Wider widths like 48 or 60 inches are required for higher occupant loads.
Handrails and projections may reduce nominal width but are not included in minimum clear width measurements.
References:
ARE 5.0 PPD - Codes and Regulations, Egress Requirements
IBC 2018 Chapter 10 - Means of Egress

NEW QUESTION # 38
Heavy steel columns and rigid connections between columns and beams
Vertical steel trusses in the external walls
Light steel columns and flexible connections between columns and beams
Vertical steel trusses in the internal walls
Which structural design concept minimizes the cost of steel structure needed to resist wind and earthquake loads in high-rise buildings?

- A. Light steel columns and flexible connections between columns and beams
- B. Vertical steel trusses in the external walls
- C. Vertical steel trusses in the internal walls
- D. Heavy steel columns and rigid connections between columns and beams

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Using vertical steel trusses in the external walls (B) allows for efficient lateral load resistance by creating a stiff, braced perimeter that resists wind and seismic forces with less material compared to internal bracing or heavy columns.
Heavy steel columns and rigid connections (A) require more steel and complex joints, increasing cost.
Light steel columns with flexible connections (C) provide less stiffness and require more members.
Internal steel trusses (D) reduce usable space and complicate architectural layouts.
External vertical trusses optimize structural efficiency and cost, as supported in NCARB PPD guidelines for high-rise construction.
References:
ARE 5.0 PPD - Structural Systems
The Architect's Handbook of Professional Practice, 15th Edition - Steel Structures

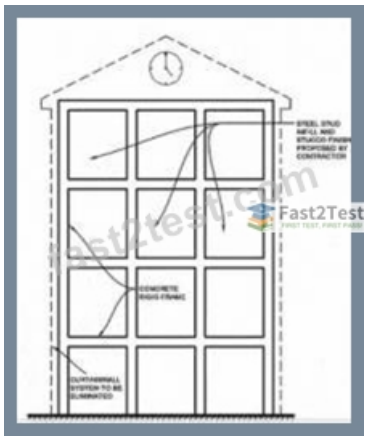
NEW QUESTION # 39
Which exterior elements control daylighting? Check the three that apply.

- A. Horizontal girt
- B. Spandrel panels
- C. Roof overhangs
- D. Horizontal louvers
- E. Parapet walls
- F. Vertical louvers

Answer: C,D,F

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Exterior shading devices control daylight penetration and solar heat gain:
Roof overhangs (A) shade upper window areas and reduce direct sunlight in summer.
Horizontal louvers (C) block high-angle summer sun but allow low-angle winter sun.
Vertical louvers (E) control low-angle sun from east/west directions and reduce glare.
Horizontal girts (B) and spandrel panels (D) are structural or opaque elements, not designed for daylight control.
Parapet walls (F) can shade roof edges but are not primary daylight controls.
References:
ARE 5.0 PPD - Environmental Conditions and Context, Daylighting and Solar Control The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Design

NEW QUESTION # 40



Refer to the exhibit (concrete rigid frame building with aluminum curtain wall system).
The drawing shows a proposed concrete rigid frame building enclosed in an aluminum curtain wall system.
To save money, the contractor proposed to eliminate the curtain wall system and substitute steel stud framing, which is anchored between the columns and beams and covered with a stucco finish.
What is the most likely result of this substitution?

- A. The stucco will crack due to movement of the frames under lateral loading.
- B. Increased dead load of the stucco system will overload the frames.
- C. Wind load on the stud framing will transfer directly to the concrete frame and overload it.
- D. The substitution will work and will save construction cost.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Curtain wall systems are designed to accommodate building movement, including deflections from wind and seismic loads, and provide an air and moisture barrier without carrying structural loads.
Replacing the curtain wall with a steel stud framing covered with stucco, which is rigid and brittle, will not accommodate differential movement between the frame and cladding. This is likely to cause stucco cracking as the steel framing and concrete frame move differently under lateral loads.
The wind load will not necessarily overload the concrete frame (A), as loads are transferred properly in both systems.
The substitution may save initial cost but will cause durability and maintenance problems (B).
Dead load increase (D) is minimal compared to structural effects of cracking.
NCARB guidelines stress proper cladding systems that can accommodate structural deflections to prevent damage.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Curtain Wall Systems
The Architect's Handbook of Professional Practice, 15th Edition - Building Envelope

NEW QUESTION # 41
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