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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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 (Q20-Q25):

NEW QUESTION # 20
An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.
The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.
Considerations for the renovation include:
*The relocated front entrance must be easily recognizable, highly visible, and secure.
*Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.
*Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.
After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.
Building information:
*Construction Type is II-B.
The following resources are available for your reference:
*Existing Plans, including site and floor plans
*Proposed Plans, including site and floor plans
*Cost Analysis
*Zoning Ordinance Excerpts, for off-street parking requirements
*IBC Excerpts, showing relevant code sections
*ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design The project team decides to cover the roof area above the gymnasium and platform with 350 watt, stationary, photovoltaic (PV) panels. Each panel requires 20 square feet, accounting for access aisles and safety clearances. The PV system will be tied to the local power company's electrical grid, and will not have battery storage. The school is located in a region that gets an average of 4 usable hours of sunlight per day.
Which of the following PV system design considerations apply to this project? Check the three that apply.
Refer to the project involving an elementary school renovation and addition with photovoltaic (PV) panels on the gymnasium roof (350-watt panels, 20 sq ft each, ~4 usable sunlight hours/day). The PV system is grid-tied without battery storage.
Which of the following PV system design considerations apply? Check the three that apply.

- A. The PV system will produce approximately 95.5 kW during peak sun conditions.
- B. The PV panels should be mounted toward the student pick-up/drop-off.
- C. The gymnasium and platform structural system must be designed to support the load of the PV system.
- D. The PV system will reduce the need for artificial lighting in the gymnasium and platform areas.
- E. The PV system will be made up of approximately 273 panels.
- F. The PV system will provide emergency power for the school if the grid goes down.

Answer: A,C,E

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

B: Structural support must accommodate PV panel weight and wind loads.
C: Number of panels is calculated by dividing total roof area by panel area (total panel count # 273).
F: Peak power output = number of panels × wattage per panel (273 × 350 W # 95.5 kW).
A: Grid-tied systems without batteries do not provide power during outages.
D: PV panels generate electricity but do not directly reduce artificial lighting needs.
E: Panels are mounted for optimal solar exposure, not necessarily toward pick-up areas.
References:
ARE 5.0 PPD - Environmental Conditions and Context, Solar Energy
The Architect's Handbook of Professional Practice, 15th Edition - Renewable Energy

NEW QUESTION # 21

Refer to the exhibit (lighting fixtures with Kelvin temperatures and CRI values).
An architect is evaluating downlighting for a new restaurant. The owner requests the lighting cast a warm light, be energy efficient, and allow for the colors of the chef's food to accurately appear while guests are seated.
What fixture manufacturer satisfies the owner's request?

- A. Luxenardo (Metal Halide, 5000K, 90 CRI)
- B. Bea-Lele Lighting (LED, 2800K, 91 CRI)
- C. VeriSPEK Fixtures (Halogen, 3000K, 95 CRI)
- D. Mornath Industries (Fluorescent, 2800K, 79 CRI)

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The owner's requirements include:
Warm light: Lower color temperatures (~2700K to 3000K) produce warm light, flattering food and ambiance.
Both Mornath (2800K) and Bea-Lele (2800K) meet this.
Energy efficiency: LEDs are generally more energy efficient than halogen, fluorescent, and metal halide fixtures.
Accurate color rendering: A high Color Rendering Index (CRI) above 90 is desirable to accurately render food colors. Bea-Lele Lighting (91 CRI) and VeriSPEK Fixtures (95 CRI) meet this.
Between Bea-Lele and VeriSPEK, LED fixtures are more energy efficient than halogen, making Bea-Lele Lighting (LED, 2800K, 91 CRI) the best choice.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Lighting Design
The Architect's Handbook of Professional Practice, 15th Edition - Lighting and Color Rendering

NEW QUESTION # 22
Which of the following design elements will affect pedestrian security within a site? Check the four that apply.

- A. Location of adjacent activity
- B. Transparency of fences and barriers
- C. Parking quantity
- D. Type of landscaping
- E. Impervious pavement
- F. Number of site access points

Answer: A,B,D,F

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)

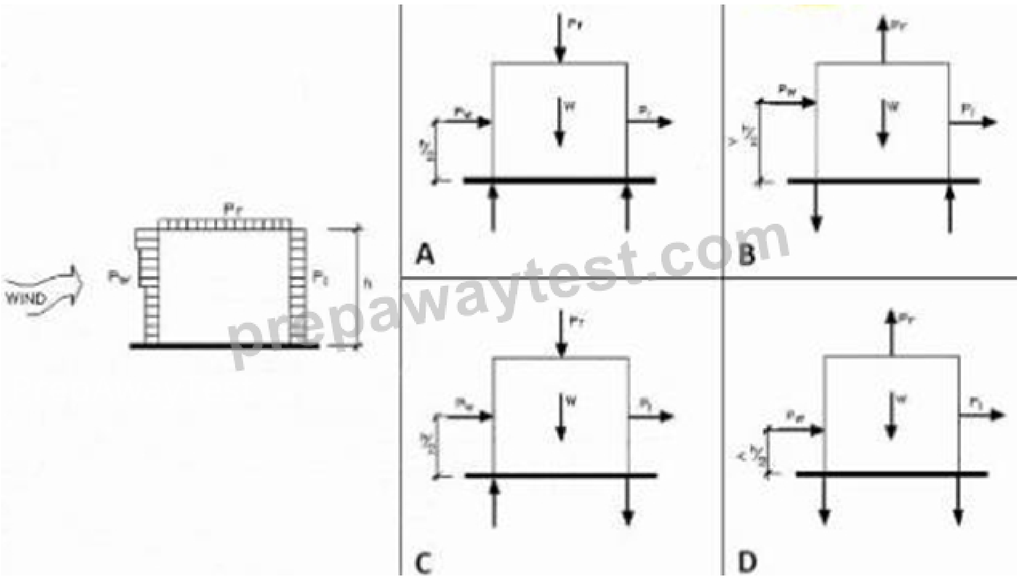
NEW QUESTION # 23
The architect's greatest contribution to good seismic design is in the design of which of the following?

- A. Building's plan and cross-sectional configuration
- B. Structural components and connections
- C. Building's interior partition arrangement
- D. Site location and building orientation

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Architects have the most influence on seismic performance through building form and configuration, including the plan and cross-sectional layout. A regular, symmetrical, and well-configured building reduces torsional forces and stress concentrations during seismic events.
Structural components and connections (A) are primarily the engineer's responsibility.
Interior partitions (B) affect non-structural behavior but are less critical to seismic response.
Site location and orientation (D) influence seismic forces but are often fixed or limited by client and site constraints.
Thus, architects significantly improve seismic safety through thoughtful spatial and structural configuration design.
References:
ARE 5.0 PPD - Environmental Conditions and Context, Seismic Design
The Architect's Handbook of Professional Practice, 15th Edition - Earthquake Resistant Design

NEW QUESTION # 24



Refer to the exhibit (building subjected to wind with force diagrams A, B, C, D).
Which of the force diagrams shown correctly represents the resultant wind forces causing an overturning effect on the building and the forces that resist this overturning effect? (Direction and point of application of forces are to be considered; magnitude of forces is not.)

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

Answer: C

Explanation:
The diagram shows a building exposed to wind loading, which causes lateral pressure (P_w) on the windward wall and suction (negative pressure) on the leeward wall, generating an overturning moment about the base of the building.
* Diagram A correctly shows:
* The wind pressure (P_w) pushing on the windward wall, producing a lateral force applied at approximately two-thirds the building height (h), which tends to overturn the building.
* The wind suction (P_l) pulling on the leeward wall, acting in the opposite direction but also contributing to the overturning moment.
* The reaction forces at the base resist this overturning: an uplift force (negative vertical reaction) on the windward side and a downward force on the leeward side, counterbalancing the moment.
* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and the corresponding resisting forces.
NCARB ARE 5.0 PPD guidelines on environmental conditions emphasize understanding wind load effects, including lateral pressures, suction, overturning moments, and foundation reactions essential for structural design and safety.
References:
ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Structural Response ASCE 7-16: Minimum Design Loads for Buildings and Other Structures (Wind Load Provisions) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 25
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One of the best ways to prepare for the NCARB Project-Planning-Design exam is to study the ARE 5.0 Project Planning & Design (PPD) (Project-Planning-Design) exam questions. Familiarizing yourself with the Project-Planning-Design certification using practice test on real-world data sets can help you build your confidence and prepare you for the exam. Additionally, taking Project-Planning-Design Exam Questions and quizzes can help you identify areas where you need to improve and gauge your understanding of the material.

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