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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	• 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 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	• 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 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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q19-Q24):

NEW QUESTION # 19
A 100,000-square-foot distribution warehouse has roof drains around the perimeter.
Which combination of structure and roofing system insulation is most cost effective?

- A. Sloped rigid frame with rigid insulation
- B. Level open web joists with tapered rigid insulation
- C. Sloped open web joists with rigid insulation
- D. Level rigid frame with tapered rigid insulation

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Open web joists allow longer spans and reduce steel use, lowering structure costs.
Level roofs with tapered rigid insulation direct water toward drains without requiring sloping of the structure, reducing structural complexity and cost.
Sloped structures (B, D) require more framing and labor.
Tapered insulation effectively provides slope for drainage on a flat roof.
Therefore, level open web joists with tapered rigid insulation provide the best cost-efficiency.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Roof Systems
The Architect's Handbook of Professional Practice, 15th Edition - Roof Design

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NEW QUESTION # 20
Which exterior elements control daylighting? Check the three that apply.

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

Answer: C,E,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 # 21
In high-rise building construction, which advantages does the use of composite floor decking offer over the use of flat plates? Check the four that apply.

- A. Metal decks provide a working platform, eliminating the need for wood planking.
- B. Composite decks provide positive reinforcement for concrete slabs.
- C. Composite decks serve as forms for concrete, eliminating the need for forming and stripping.
- D. Shear connectors are not required between the concrete and the beams below.
- E. Steel construction provides decreased sound transmission compared to flat plate systems.
- F. Lightweight concrete may be used to reduce dead weight of the structure.

Answer: A,B,C,F

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Composite floor decking advantages:
(A) Composite action reinforces slabs, improving strength.
(C) Metal decks serve as working platforms, speeding construction.
(D) Decks act as permanent formwork, eliminating temporary formwork.
(E) Lightweight concrete can be used to reduce structural weight.
(B) Shear connectors are required for composite action, so this is incorrect.
(F) Steel generally increases sound transmission compared to flat plate concrete, so false.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Structural Systems
The Architect's Handbook of Professional Practice, 15th Edition - Steel Construction

NEW QUESTION # 22
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

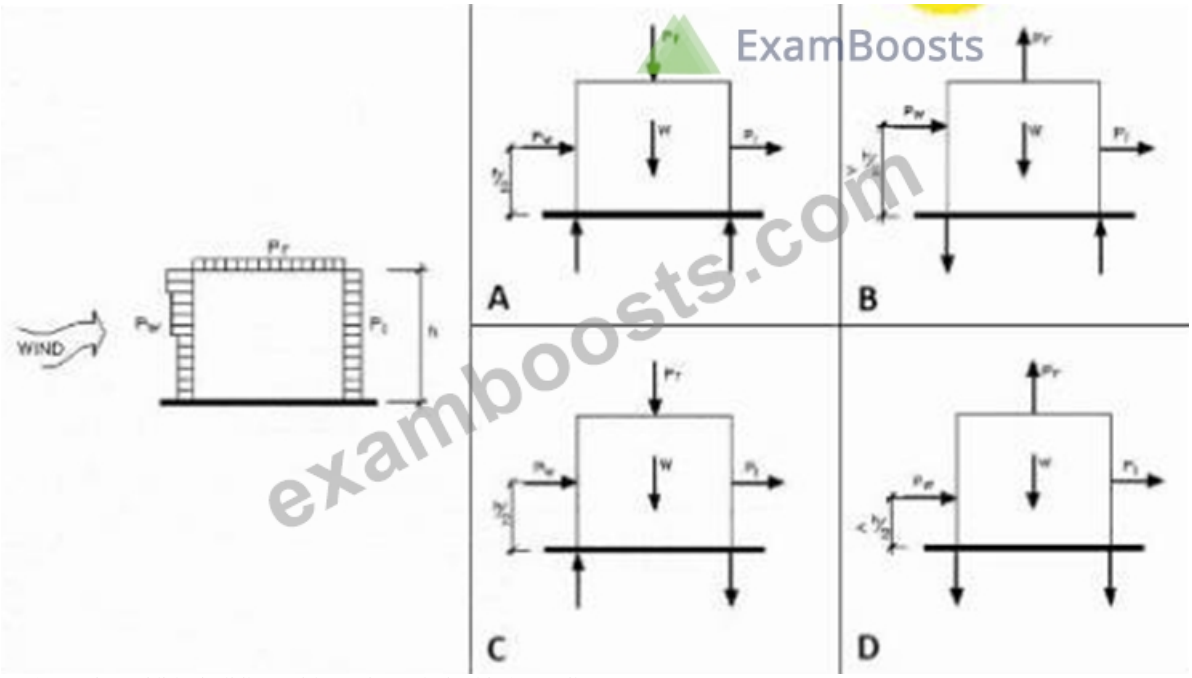
economical due to strict budget limitations.
*Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.
After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.
Building 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 provide emergency power for the school if the grid goes down.
- F. The PV system will be made up of approximately 273 panels.

Answer: A,C,F

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 # 23



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

Answer: A

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 # 24
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