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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

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 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 5	<ul style="list-style-type: none"> • 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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q29-Q34):

NEW QUESTION # 29

Which of the following are characteristics of heavy-timber construction? Check the four that apply.

- A. Susceptibility to rot
- B. Susceptibility to differential shrinkage
- C. Relatively rapid on-site erection times
- D. Presence of sapwood to prevent insect damage
- E. Suitability to create unusual layouts or irregular forms
- F. Fire resistance

Answer: A,B,C,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Heavy timber construction is characterized by:

Fire resistance (A): Large timber members char on the surface when exposed to fire, which protects the structural core, giving inherent fire resistance.

Susceptibility to differential shrinkage (C): Heavy timber elements can shrink unevenly, potentially causing joints or connections to loosen.

Relatively rapid on-site erection times (D): Pre-fabricated heavy timber elements are large and can be quickly erected compared to traditional framing.

Susceptibility to rot (E): Without proper detailing and protection, timber can decay due to moisture exposure.

Unsuitable for unusual layouts or irregular forms (B): Heavy timber tends to be more rigid and better suited for regular layouts.

Presence of sapwood (F): Sapwood is generally more susceptible to insect attack; durable heartwood is preferred to resist insects.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Heavy Timber Construction The Architect's Handbook of Professional Practice, 15th Edition - Wood Construction

NEW QUESTION # 30

An existing building containing the maximum allowable area may be extended horizontally provided the extension is separated from the existing building by which one of the following?

- A. A fire wall
- B. A fire-rated shutter
- C. A water curtain
- D. An outside space separation of at least 10 ft

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the International Building Code (IBC) and reflected in the NCARB Project Planning & Design guidelines, when an existing building has reached the maximum allowable floor area, horizontal extensions (additions) can be made only if there is a proper separation between the existing structure and the new addition. This separation must prevent fire spread and protect structural integrity.

A fire wall is a continuous, fire-resistive barrier designed to prevent the spread of fire between adjacent buildings or different parts of a building. It must have structural stability under fire conditions and can allow the two portions of the building to be treated as separate structures for area calculations, effectively permitting expansion beyond the allowable area of a single building.

Fire-rated shutters (Option A) are movable devices used for compartmentation but are not intended for permanent separation of building areas.

Outside space separation of at least 10 ft (Option B) is generally insufficient for full area separation unless it meets specific fire-resistance rating and distance requirements that typically exceed 10 feet.

Water curtains (Option D) are active fire protection devices but are not substitutes for passive separations required by code to extend allowable building area.

Thus, the correct method to extend a building beyond its maximum allowable area is to separate it with a fire wall, as per NCARB and IBC provisions.

References:

ARE 5.0 PPD - Codes and Regulations, Building Area and Occupancy Separation IBC 2018, Chapter 7: Fire and Smoke Protection Features The Architect's Handbook of Professional Practice, 15th Edition - Fire Protection

NEW QUESTION # 31

A divisional cost breakdown method of cost estimating has which of the following advantages over a cost per square foot method of cost estimating?

- A. It is useful for generic buildings.
- **B. It is useful throughout design and construction of the project.**
- C. It provides a simple method to calculate costs.
- D. It provides a quick reference or check at the early design stages.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The divisional cost breakdown method organizes project costs by divisions (e.g., site work, concrete, finishes), which allows for detailed tracking and estimation of costs throughout design and construction phases. This method is more comprehensive and flexible compared to the simple cost per square foot method, which is primarily useful early in design for rough order-of-magnitude estimates.

Therefore, the divisional method's key advantage is its usefulness throughout the project lifecycle for cost management, enabling more accurate updates and adjustments as design progresses.

References:

ARE 5.0 PPD - Project Costs and Budgeting

The Architect's Handbook of Professional Practice, 15th Edition - Cost Estimating and Control

NEW QUESTION # 32

An architect's client is focused on lighting energy savings and daylighting design in a new 3,000 ft² commercial building addition to expand showroom and office square footage. The client requests reasonable daylighting measures in the design.

What should the architect recommend to the client?

- A. Increase sunlight in the vicinity of critical visual tasks
- B. Limit ample access to daylight to the interior spaces only
- C. Isolate electric lighting for daylight-responsive control to within a single zone
- **D. Provide for daylight-responsive control of electric lighting**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Daylight-responsive control systems automatically adjust electric lighting based on available natural light, reducing energy use and improving occupant comfort.

Isolating lighting to a single zone (A) limits effectiveness.
Limiting daylight access (C) reduces benefits.
Increasing sunlight near tasks (D) can cause glare.
Thus, providing daylight-responsive electric lighting control is recommended.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Daylighting
The Architect's Handbook of Professional Practice, 15th Edition - Lighting Design

NEW QUESTION # 33

A new, sprinklered, mid-rise office building of Type II-A construction has a ground-level restaurant and offices above. The restaurant has an A-2 occupancy and the offices have a B occupancy. The architect needs to provide fire separation between the two occupancy types and select the most cost-efficient floor/ceiling assembly option. Which one of the following assemblies is most appropriate?

- A. 1-hour-rated assembly with open web steel joists @ 24" o.c.
- B. 1-hour-rated assembly with 2 x 10 wood joists
- C. 2-hour-rated assembly with lightweight precast concrete

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to IBC Table 508.4, with sprinklers installed throughout (S), a 1-hour fire separation is required between A-2 and B occupancies in Type II-A construction.

Open web steel joists (C) can be used in 1-hour-rated assemblies, providing cost efficiency and structural flexibility.

Wood joists (A) might not meet Type II-A non-combustible requirements.

2-hour-rated precast concrete (B) is more costly than needed per code.

Thus, option C balances code compliance and cost.

References:

IBC Table 508.4

ARE 5.0 PPD - Codes and Regulations, Fire Separation

The Architect's Handbook of Professional Practice, 15th Edition - Fire-Resistive Construction

NEW QUESTION # 34

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