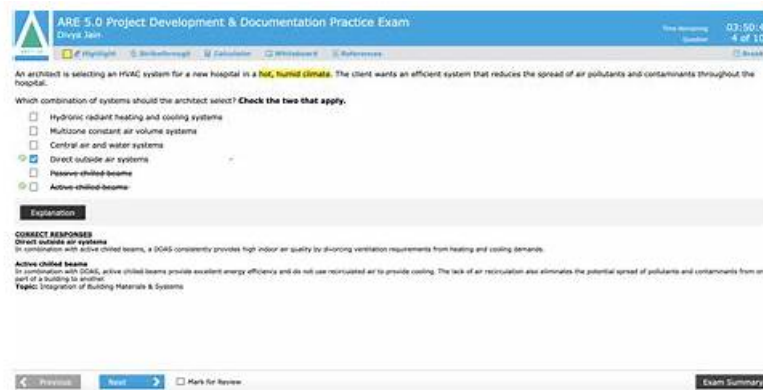


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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q52-Q57):

NEW QUESTION # 52

An architect is working with a developer to determine which of three available sites should be the preferred location for a new office building that will primarily utilize passive energy systems. All three sites are located in a cold, northern climate with winter winds predominantly from the north and west.

Site descriptions:

Site A: Located at the top of a hill; small vegetation and brush; expansive views in all directions.

Site B: Located along a river; heavily wooded area on the north side; coniferous trees shading the southern face of the building.

Site C: Located on a rocky, south-facing slope; wooded on the eastern edge; native grasses on southern boundary.

Primary goal: maximize solar energy potential while maintaining winter wind protection.

Which site should be selected?

- A. Site A
- **B. Site C**
- C. Site B

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Site C offers a south-facing slope, which maximizes solar exposure-crucial in cold climates for passive solar heating. The wooded eastern edge provides wind protection from cold morning winds, and native grasses on the south reduce erosion while minimally shading.

Site A, on a hilltop with sparse vegetation, lacks wind protection.

Site B has coniferous trees shading the southern face, reducing solar gain, which is counterproductive for passive solar design.

Thus, Site C optimizes both solar potential and wind protection.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Passive Solar Design The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Site Planning

NEW QUESTION # 53

Which of the following is the most effective way to reduce noise in mechanical air delivery systems?

- A. Reduce the free area of the supply air grille
- **B. Increase the size of the ductwork**
- C. Provide exterior duct insulation

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Noise in mechanical air delivery systems is often caused by high air velocity and turbulence within ducts, which generate sound that can be transmitted to occupied spaces.

Increasing the size of the ductwork (A) lowers the air velocity for a given volume of air flow, which reduces turbulence and noise generation inside the duct. Larger ducts allow air to move more quietly and efficiently.

Exterior duct insulation (B) can reduce noise transmission through the duct walls but is less effective at controlling the noise generated by airflow itself inside the duct.

Reducing the free area of the supply air grille (C) increases velocity at the grille, potentially increasing noise at the outlet and causing discomfort.

Therefore, the most effective strategy is increasing duct size to reduce air velocity and noise.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC and Acoustics

NEW QUESTION # 54

Which statement accurately describes the use of an electrical conduit?

- A. A separate ground wire is required to avoid a shock hazard when using steel conduit.
- B. Aluminum conduit is a cost-effective alternative to steel conduit because it can be used in all locations steel conduit is used.
- C. Rigid polyvinyl chloride conduit provides a system ground path.
- **D. Steel conduit is used to support and protect the conductors.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steel conduit is primarily used to support and protect electrical conductors from physical damage and to provide mechanical protection. It can also serve as an equipment grounding conductor in many applications, but a separate ground wire is sometimes still required depending on code and installation specifics.

Option A is incorrect because steel conduit often acts as the grounding path, so a separate ground wire is not always required.

Aluminum conduit (B) is not commonly used in all the same locations as steel, especially due to corrosion concerns.

PVC conduit (C) is nonmetallic and does not provide a grounding path; a separate ground wire is needed.

References:

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

NEW QUESTION # 55

Structural costs for wind resistance increase exponentially as building height is increased, primarily due to which of the following factors? Check the two that apply.

- A. Snow and rain loads increase on the roof portion of the structure.
- **B. There is a need for control of excessive drift at higher floors.**
- C. Use of precast panels instead of metal/glass panels increase costs.
- **D. Wind pressure is greater at higher surfaces.**
- E. Live load increases as the number of stories increase.
- F. Dead load increases as the number of stories increases.

Answer: B,D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As building height increases, wind pressures acting on the building surfaces increase because wind speed generally increases with elevation due to reduced friction from ground features (A).

Additionally, taller buildings experience larger lateral displacements (drift), requiring more complex structural systems and stiffer frames to control excessive drift for occupant comfort and structural safety (E).

This requirement significantly increases structural costs.

Dead load (B) and live load (D) increase with stories but do not increase exponentially or primarily affect wind resistance costs.

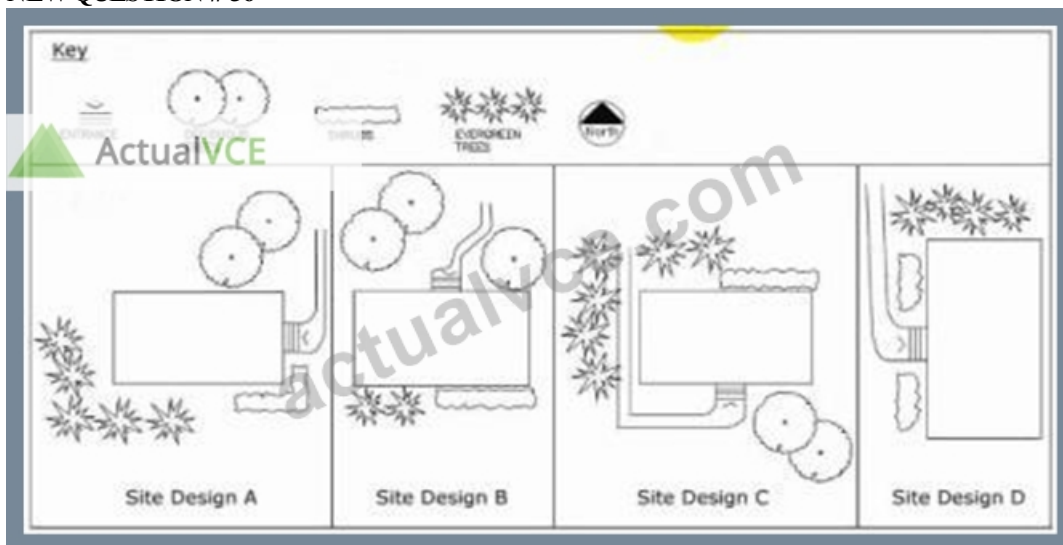
Snow and rain loads (C) mostly affect the roof, not height-related wind loads.

Choice of cladding materials (F) impacts cost but is not a primary reason for exponential wind resistance cost increases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind Loads and Structural Costs

NEW QUESTION # 56



Refer to the exhibit (site designs A through D with tree and shrub placement and prevailing northwest winds indicated). Which of the following site designs would best protect the structure from prevailing northwest winds?

- **A. Site Design B**
- B. Site Design A
- C. Site Design D
- D. Site Design C

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To protect a structure from prevailing winds, dense windbreaks such as evergreen trees should be planted upwind (northwest side) to reduce wind speed and buffer the building.

Site Design B places multiple deciduous and evergreen trees directly upwind (northwest) of the building, effectively creating a natural wind barrier.

Other site designs (A, C, D) do not position enough windbreak vegetation on the northwest side, making them less effective.

NCARB PPD guidelines emphasize site planning strategies that leverage natural vegetation as windbreaks to improve microclimate, energy efficiency, and occupant comfort.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site Planning and Microclimate The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Site Design

NEW QUESTION # 57

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