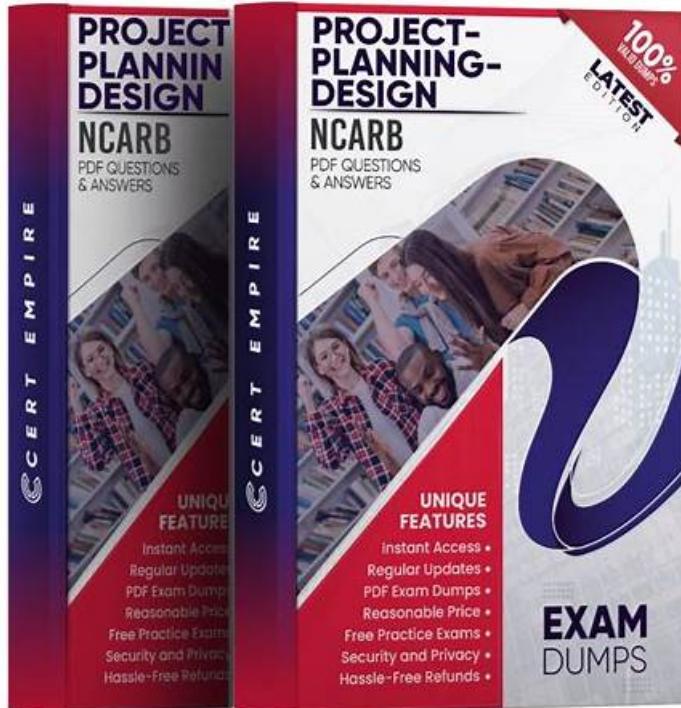


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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q27-

## Q32):

### NEW QUESTION # 27

Which strategy enhances passive solar residential design in the northern hemisphere?

- A. Locating deciduous trees along the south side of the house
- B. Reducing heat storage capacity
- C. Installing an electric baseboard heating system
- D. Eliminating insulated glazing along the northern walls

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Passive solar design in the northern hemisphere relies on maximizing solar gain during the winter while minimizing overheating during summer.

Deciduous trees located on the south side provide shade during the summer (when they have leaves), reducing cooling loads, and allow sunlight to penetrate in the winter after leaf fall, enhancing solar heat gain. This seasonal shading improves comfort and energy efficiency.

Eliminating insulated glazing on the north walls (B) increases heat loss, which is undesirable in cold climates.

Reducing heat storage capacity (C) lowers the building's thermal mass, decreasing its ability to moderate temperature swings, which is counterproductive.

Installing electric baseboard heating (D) is a mechanical solution and does not enhance passive solar design.

Therefore, option A is the best strategy consistent with passive solar principles.

References:

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

### NEW QUESTION # 28

□ Refer to the exhibit (building with wind impacting wall A, and openings shown).

For the building subjected to wind as shown, the design pressure acting on the interior face of wall A would be what?

- A. Acting both toward and away from wall A
- B. Zero
- C. Acting away from wall A only
- D. Acting toward wall A only

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

With openings allowing wind passage, pressure on the interior of wall A varies:

Wind pressure on the windward side induces positive pressure toward wall A.

Wind entering openings can create localized negative pressure (suction) on the interior surface, acting away from wall A.

Thus, the interior face experiences both positive and negative pressures depending on location and airflow, meaning D. Acting both toward and away from wall A is correct.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Wind Loads on Building Enclosures The Architect's Handbook of Professional Practice, 15th Edition - Building Envelope Design

### NEW QUESTION # 29

Refer to the exhibit (louvered sunscreen cantilevered with beam). Assume the cantilevered beam is weightless.

□ Which of the following is the moment diagram?

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

## Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For a cantilevered beam loaded uniformly (such as a louvered sunscreen), the bending moment diagram is characterized by: Maximum negative moment (hogging moment) at the fixed support (where the beam is anchored to the building). This is a large negative moment because the beam is fixed and resists rotation.

The moment decreases linearly to zero at the free end of the cantilever.

Diagram C shows this pattern with maximum moment at the support tapering to zero at the free end, consistent with static beam theory.

Other diagrams show positive moments or incorrect distributions.

This is a standard result taught in structural mechanics and referenced in ARE guidelines related to structural systems.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Systems

The Architect's Handbook of Professional Practice, 15th Edition - Structural Analysis

## NEW QUESTION # 30

□ Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (\*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

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

## Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning, which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Equipment Layout

## NEW QUESTION # 31

Which plumbing criteria will offer a flexible design for a 15-story office building?

- A. Locating restrooms in a central core
- B. Utilizing a two-pipe hydronic system
- C. Stacking restrooms outside a central core
- D. Separating plumbing and mechanical chases

## Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Locating restrooms in a central core is a common strategy in high-rise office buildings to centralize plumbing stacks, reduce pipe runs, and improve flexibility for tenant fit-outs. This allows easier plumbing access and efficient vertical stacking of plumbing fixtures.

Stacking restrooms outside the core (A) increases plumbing complexity and reduces space efficiency.

Separating plumbing and mechanical chases (C) can complicate coordination.

A two-pipe hydronic system (D) relates to heating/cooling, not plumbing fixture layout.

References:

## NEW QUESTION # 32

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