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90-degree parking - ANSWERSA pattern of vehicle storage in which car stalls are arranged at a right angle to the access lane. Also known as Perpendicular Parking.

ABS - ANSWERSAbbreviation for acrylonitrile-butadiene-styrene, a plastic used for drainage, waste, and vent piping, as well as for sewer systems.

absolute humidity - ANSWERSThe weight of water vapor per unit volume of air.

absorber plate - ANSWERSThe part of a solar collector that absorbs solar radiation.

absorption coefficient - ANSWERSThe percentage of incoming energy that is absorbed. In measuring radiant energy (light or heat) it is a unitless ratio that may vary depending on wavelength. In acoustics, it is called a sabin and may vary depending on frequency.

absorption refrigeration - ANSWERSA cooling process resulting from the absorption of vapor by a brine solution, which is then heated to remove the moisture. The heat may be supplied by solar or other heating sources.

AC - ANSWERSThe abbreviation for either air-conditioning or alternating current, depending on the context.

acceleration - ANSWERSThe rate of change of velocity, usually expressed as a fraction or percentage of g, the acceleration of gravity.

accelerator - ANSWERSA substance, such as calcium chloride, added to a concrete mix to speed up its setting and strength development.

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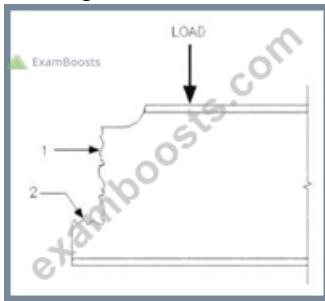
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## Exam Pass Guide

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## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q20-Q25):

### NEW QUESTION # 20



Refer to the exhibit.

Which of the following correctly identifies the types of failures indicated in the beam diagram?

- A. Tension, Compression
- B. Shear, Tension
- C. Compression, Shear
- D. Shear, Compression

**Answer: B**

Explanation:

The diagram shows a loaded beam with two types of failure indicated:

Location 1 on the top edge shows shear failure - characterized by jagged cracks or fractures, typically near supports or where shear forces peak.

Location 2 near the bottom edge shows tension failure - concrete is weak in tension, so cracks develop at the bottom face in a simply supported beam under load.

This matches common structural behavior where:

The top fibers of a beam in bending undergo compression and shear stress.

The bottom fibers undergo tension (where cracks often form).

Shear cracks are usually diagonal and closer to the support (near the ends), tension cracks are vertical and near the midspan.

Reference:

NCARB ARE 5.0 Review Manual, Structural Systems chapter

Fundamentals of structural analysis and beam failure modes

### NEW QUESTION # 21

A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.

To accommodate a compressed construction schedule, the Owner will be utilizing a design-build process. The Contractor has submitted the Pre-Engineered Metal Building (PEMB) shop drawings to the Architect for review, due to the lead time on this critical path item. Once construction begins, farming operations must be able to continue uninterrupted.

Key project information includes:

\* Brewing and distilling will operate year-round.

\* Brewery will initially include four fermenting tanks. Owner has requested space for at least two additional tanks. Potential expansion will be based on future sales.

\* Distillery will produce 16% alcohol, which is classified as a flammable liquid. Fire separations are required.

\* Tap Room is designed with seating for 300 people, not including exterior patio seating. It will have views to the working orchards and the historic buildings on site.

- \* Tap Room is scheduled to be open from August through November. Owner would like options to extend operating dates based on popularity.
- \* The Market area will feature local farm products and is not conditioned.
- \* Entire building will be fully sprinklered.
- \* Selected building materials are low-maintenance, as requested by the Owner, for durability and to reflect the nature of a working farm.
- \* Mechanical and electrical systems will be hung from the building structure. These loads are included in PEMB shop drawings.
- \* Public water and sewer is not available at the Project Site.
- \* Occupancy sensors are included to reduce utility costs and achieve energy conservation requirements.

The following resources are available for your reference:

- \* Architectural Drawings, including plans, elevations, sections, and schedules
- \* Consultant Drawings, including structural, HVAC, power distribution, and plumbing
- \* PEMB Shop Drawings
- \* Design and Construction Schedule
- \* Specification Excerpts, showing relevant spec sections
- \* IBC and ADA Excerpts, showing relevant code and accessibility sections
- \* After reviewing the documents, the architect discovers a coordination issue in the corridor.

The client wants to add rooftop access for residents. Roof access features include:

Adding a vegetated roof system

Installing an elevated paver patio system

Limiting access to 50 residents at any time

What should the architect do to accommodate this revision? Check the four that apply.

- A. Consult structural engineer
- B. Revise exterior elevations
- C. Consult elevator manufacturer
- D. Provide an exterior exit stair
- E. Provide additional roof details
- F. Contact civil engineer

**Answer: A,B,D,E**

Explanation:

Interpreting the Scenario

The owner is requesting rooftop access for residents, featuring a vegetated (green) roof, an elevated paver patio, and occupancy limited to 50 people. These revisions introduce new design requirements triggered by building codes (means of egress, structural loads, architectural representation) and coordination challenges across disciplines.

Why Each Selected Option is Required

\* Revise Exterior Elevations

\* The addition of a rooftop terrace and vegetated roof changes the building's exterior appearance- its massing, parapets, materials, and possibly guardrail heights. These design changes must be reflected in the architectural drawings used for permit issuance and construction.

\* Provide an Exterior Exit Stair

\* Under the International Building Code (IBC) and general egress requirements, an occupied rooftop (used by people for recreation or amenities) must be safely accessible and egressed.

Occupied roofs require a stairway-an exterior exit stair-rather than just a hatch or ladder ICC-6NYC-6The Building Code Forum-6NYC-4lapeyrestair.com-4NYC-4. This ensures the rooftop can serve as a legal means of egress.

\* Provide Additional Roof Details

\* Adding a vegetated roof system and a paver patio involves multiple layers (waterproofing, root barrier, drainage, structural substrate, pavers, possibly amenity loading, edge details, guardrails).

The project manual and construction documents must include these specific details to ensure proper assembly and water protection.

\* Consult Structural Engineer

\* Vegetated roofs and paver patios introduce significant dead loads (soil, plants, saturated weight) and live loads (maintenance personnel, occupants). The structure must be verified to support these loads. Per green roof design standards, structural capacity must be evaluated early in the design process NYC. Consulting the structural engineer ensures safety and code compliance.

Why Other Options Do Not Apply

\* E. Consult elevator manufacturer

\* There's no indication that elevator access is required or available. Current code triggers elevator access only in specific scenarios (e.g., occupant loads exceeding certain thresholds combined with accessibility requirements). This project doesn't suggest such a need.

\* F. Contact civil engineer

\* The rooftop change pertains to architectural detailing, structural capacity, and life safety-not site-wide civil issues like grading, stormwater, or utilities. While the vegetated roof may affect overall stormwater management, primary concerns still fall under architectural and structural domains. Typical ARE scope categories engage the geotech/environmental or landscape professional-not necessarily the civil engineer-unless broader site infrastructure is impacted.

#### NEW QUESTION # 22

An architect is coordinating the mechanical and structural systems in a building with exposed ceilings. The HVAC ducts are interfering with a large concrete beam in the open office area.

- A. Request the mechanical engineer to reroute the ductwork
- B. Shift the HVAC ducts below the beam
- C. Increase the ceiling height
- D. Relocate the beam to accommodate the ductwork

#### Answer: A

Explanation:

In PDD, the architect must coordinate consultant drawings. When a conflict exists (here, duct vs. beam), the best course is to ask the responsible engineer (mechanical) to reroute the ductwork to clear the beam. As per ARE 5.0 Handbook Objective 3.1, the architect is expected to "coordinate building systems and their integration."

#### NEW QUESTION # 23

Where is the proper place to put a vapor barrier in a cold climate?

- A. On the exterior between the metal siding and the sheathing
- B. On the interior between the gypsum wallboard and the framing
- C. In the cavity of the framing space
- D. On the exterior between the framing and the sheathing

#### Answer: B

Explanation:

In cold climates, the vapor drive is from the warm interior to the cold exterior during winter. The vapor retarder/barrier belongs on the warm-in-winter side of the assembly-i.e., behind the interior gypsum, before the framing/insulation-to prevent interior moisture from reaching cold layers where it could condense.

PDD references: Psychrometrics & vapor drive; vapor retarder placement (ASHRAE; IBC/IECC guidance; ARE 5.0 PDD-Thermal & Moisture Protection).

#### NEW QUESTION # 24

Why is the vertical surface of a dry-stacked stone wall often battered into the retained material?

- A. Increased impermeability that reduces equivalent fluid pressure
- B. Increased resistance to soil thrust
- C. Increased resistance to surface erosion of the wall
- D. Increased cohesion between individual stones that make up the wall

#### Answer: B

Explanation:

A battered (leaning back) face on a dry-stacked retaining wall improves stability against lateral earth pressure by shifting the wall's resultant closer to/within the middle third of the base, increasing frictional resistance and reducing overturning. It does not significantly change permeability (C) or directly increase cohesion between stones (D), and erosion resistance (B) is secondary compared to stability.

PDD References: Site & foundation systems-retaining wall behavior, active/passive earth pressures; IBC /Geotechnical fundamentals; CSI Div. 32 site improvements.

## NEW QUESTION # 25

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