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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	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	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 5	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.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q12-Q17):

NEW QUESTION # 12

The zoning approval process may involve obtaining which of the following? Check the four that apply.

- A. Building permit
- B. Undue hardship exemption
- C. Special exception
- D. Conditional use
- E. Variance
- F. Grading permit

Answer: C,D,E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Zoning approval can involve:

Variance (A): Permission to deviate from zoning requirements.

Grading permit (C): Approves site grading related to zoning.

Conditional use (D): Allows use under specific conditions.

Special exception (E): Permits uses not normally allowed but granted under certain circumstances.

Building permits (B) are separate from zoning.

Undue hardship exemption (F) is legal but not typically a zoning approval term.

References:

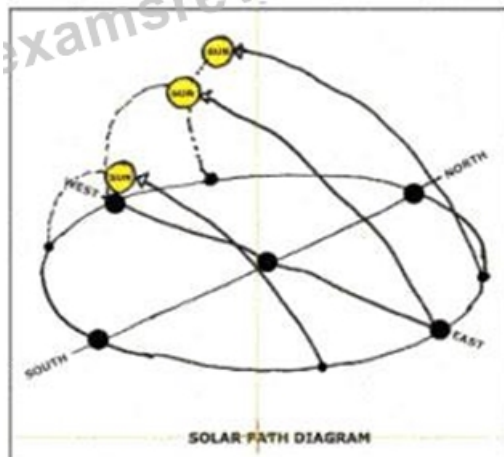
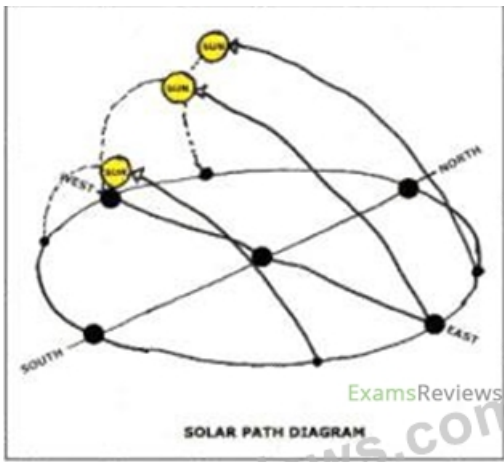
ARE 5.0 PPD - Codes and Regulations, Zoning

The Architect's Handbook of Professional Practice, 15th Edition - Land Use Controls

NEW QUESTION # 13

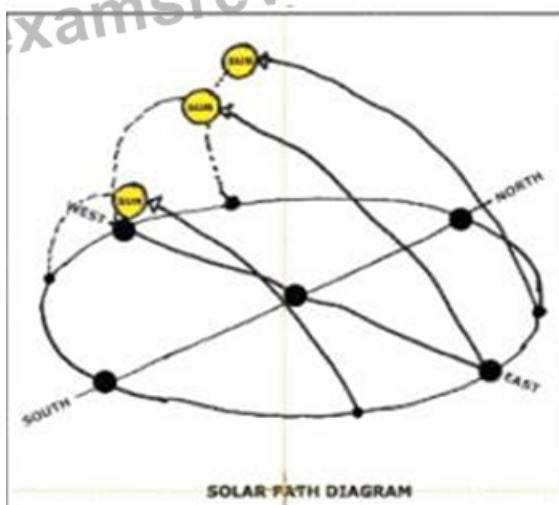
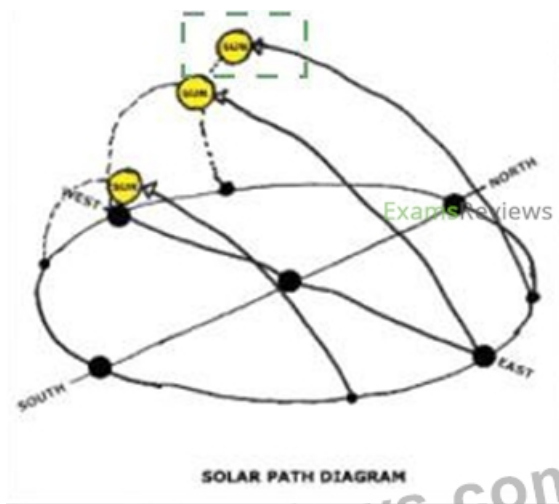
An architect is designing overhangs for a building on a site in the southeastern United States. The architect desires to minimize heat gain during the summer months.

Click in the sun on the solar path diagram that the architect should consider when designing the overhangs.



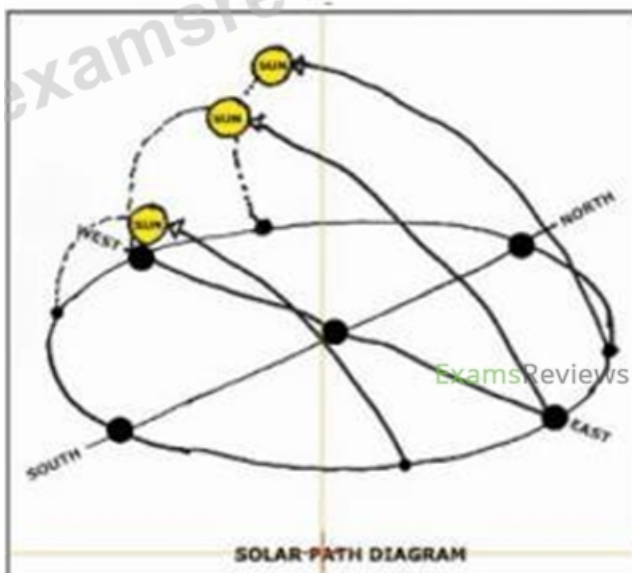
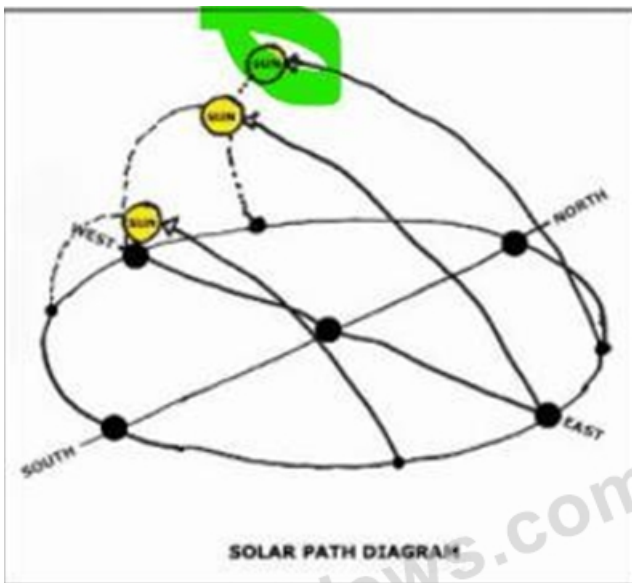
Answer:

Explanation:



Explanation:

A diagram of solar path diagram AI-generated content may be incorrect.



* The solar path diagram shows the sun's trajectory through the sky at different times of the year.

* In the southeastern U.S., during summer months, the sun reaches a high altitude (near the top of the solar path diagram), typically toward the southern sky.

* Designing overhangs to block this high summer sun reduces direct solar heat gain inside the building, improving thermal comfort and reducing cooling loads.

* The lower sun position corresponds to winter when sunlight penetration is beneficial for passive solar heating and daylighting, so overhangs should allow low-angle winter sun while shading high-angle summer sun.

On the provided diagrams, the sun symbol at the highest arc near the south (the highest yellow sun on the upper diagram) represents the summer sun path to focus on for shading design.

NEW QUESTION # 14

On the site plan, the Phase I building is a 24-hour emergency veterinary clinic. The Phase II building is a boarding kennel for dogs and cats. The cat enclosures will face north for views of the wetlands. Eventually, a landscape architect will design a memorial garden on the northwest area of the site.

The architect needs to locate a service drive for the property and wants to minimize the impact of construction on site vegetation and wildlife.

Click on the property line location on the site plan to indicate the appropriate location for the service drive.



Answer:

Explanation:



Explanation:

east side (Pine Street)

- * Locating the service drive along the east side (Pine Street) minimizes disturbance to the wetlands area (northwest part of the site) and existing trees concentrated mostly in the southwest and northwest areas.
 - * This placement keeps the service drive away from the sensitive wetlands and the planned memorial garden on the northwest, preserving wildlife habitats and mature vegetation.
 - * It also provides convenient access for service vehicles without crossing or fragmenting critical site features.
 - * The east side is adjacent to an existing road (Pine Street), making it logical for service access and reducing new disturbance.
- This approach aligns with NCARB ARE 5.0 Project Planning & Design guidance for site design prioritizing environmental preservation and minimizing construction impact on sensitive natural areas.

NEW QUESTION # 15

An architect is selecting a mechanical system for the first floor of a hotel in a temperate climate. They must consider the following:

- * The building footprint covers 95% of the small urban site.
- * The first floor has an open floor plan that includes a lobby, bar, and restaurant.
- * The plan can only accommodate one 500 sf mechanical room.

What mechanical system should the architect recommend?

- A. Geothermal heat pump
- **B. Variable refrigerant flow system**
- C. Packaged terminal air conditioners

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Variable Refrigerant Flow (VRF) systems are ideal for buildings with space constraints and diverse internal loads. They provide zoned heating and cooling from a compact mechanical room and allow flexibility with open floor plans by serving multiple zones with

variable refrigerant volumes.

Geothermal heat pumps (A) require larger mechanical or ground loop spaces and are less practical in tight urban footprints.

Packaged terminal air conditioners (B) serve individual rooms and require space for multiple units and wall penetrations, which may not be feasible in this context.

Hence, VRF systems balance space efficiency, energy performance, and zoning flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC Systems

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

NEW QUESTION # 16

The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.

The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Aluminum or copper bus duct with tap boxes
- B. Paralleled sets of aluminum wire in conduits
- C. Single large aluminum or copper conductor
- D. Paralleled sets of copper wire in conduits

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.

Paralleled wires (A, B) increase complexity and are less flexible.

Single large conductors (C) are limited in expansion.

Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

NEW QUESTION # 17

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