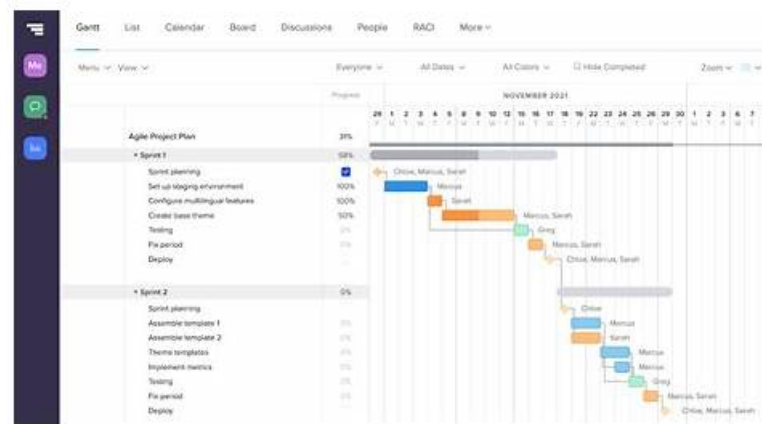


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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

Topic 3	<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 4	<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 5	<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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q21-Q26):

NEW QUESTION # 21

The use of a central computer system to monitor a building's heating and cooling demands will do which one of the following?

- A. Eliminate the use of a facility manager
- B. Be primarily for solar-heating and natural-cooling systems
- C. Increase the cost of energy consumption
- **D. Interactively select the least energy-intensive system or combination of systems**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Central building automation systems (BAS) monitor and control HVAC and other systems to optimize energy efficiency by selecting the best combination of available systems and adjusting operation based on demand and conditions. This reduces energy consumption and operational costs.

BAS does not eliminate the need for facility managers (A), who oversee broader operations.

It aims to reduce, not increase, energy costs (C).

BAS is applicable to all mechanical systems, not limited to solar or natural cooling (D).

References:

ARE 5.0 PPD - Building Systems and Assemblies, Building Automation

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

NEW QUESTION # 22

A one-story residence in a dry climate with cold winter nights is designed with an unconditioned dirt floor crawlspace utilizing underfloor plumbing and HVAC ductwork. The owner is interested in using a concrete slab-on-grade floor instead of the pier-and-beam concrete floor over an open crawlspace as originally designed.

What are the impacts of changing the design to a slab-on-grade floor system? Check the two that apply.

- **A. It will limit future plumbing flexibility.**
- B. It will allow for HVAC ductwork installation.
- **C. It will have warmer floors in the evenings.**
- D. It will have more steel reinforcing.
- E. It will allow for better moisture control.
- F. It will limit the types of flooring finishes available.

Answer: A,C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Changing from a pier-and-beam system with an open crawlspace to a slab-on-grade floor has several impacts:

Warmer floors in the evenings (A): Concrete slab-on-grade floors have high thermal mass, which can absorb heat during the day and

release it slowly, resulting in warmer floors at night, particularly beneficial in cold climates.

Limited future plumbing flexibility (C): Plumbing embedded in or beneath slabs is difficult to access or modify after construction, unlike crawlspaces that provide easier access to underfloor plumbing for repairs or modifications.

More steel reinforcing (B): While slabs do require reinforcement, this is often comparable or less than the framing required for pier-and-beam floors, so this is not necessarily an impact.

Flooring finishes (D): Slab floors can accommodate many finishes; thus, limitations are generally minimal.

Better moisture control (E): Slabs require moisture barriers and careful detailing to control moisture; crawlspaces can sometimes be easier to ventilate but may allow moisture intrusion if not properly designed.

HVAC ductwork installation (F): Crawlspaces allow ducts to be located under the floor; slabs typically require ducts to be placed above or within conditioned spaces.

Thus, the most significant impacts are warmer floors and reduced plumbing flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Foundations and Floors

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

NEW QUESTION # 23

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck.

Other considerations for the project include:

- * Protected tree requirements are defined in the PD document.
- * Easy pedestrian access must be provided from Sycamore Boulevard.
- * All required parking for the clinic must be accommodated on site.
- * Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).
- * Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.
- * All service equipment needs to be screened; see PD document for restrictions.
- * Signage opportunities are important to the client.
- * Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

- * Drawings, including a perspective, plans, and exterior elevations
 - * Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)
 - * Exterior Material Cost Comparisons
 - * Planned Development Document
 - * IBC Excerpts, showing relevant code sections
 - * ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design
- After construction, the owner asks the architect to integrate sustainable features that would offset building operational costs and have minimal changes to the existing design and future development.

Which of the following sustainable features should the architect consider?

- A. Building-mounted vertical sunshades
- **B. Roof-mounted PV panels**
- C. Ground-mounted PV panels

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Roof-mounted photovoltaic (PV) panels are the most appropriate sustainable feature to offset building operational costs with minimal design changes, especially in a mixed-use development with planned future expansion.

Building-mounted vertical sunshades (A) require design integration and may affect exterior finishes and daylighting.

Ground-mounted PV panels (C) require additional land and site preparation, which could conflict with future development plans and site constraints.

Roof-mounted PV panels maximize use of existing roof space, reduce energy costs, and are relatively easy to integrate with minimal impact on building massing or future phases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Renewable Energy
Planned Development Document

NEW QUESTION # 24

In high-rise building construction, which advantages does the use of composite floor decking offer over the use of flat plates? Check the four that apply.

- A. Steel construction provides decreased sound transmission compared to flat plate systems.
- B. Composite decks serve as forms for concrete, eliminating the need for forming and stripping.
- C. Metal decks provide a working platform, eliminating the need for wood planking.
- D. Shear connectors are not required between the concrete and the beams below.
- E. Lightweight concrete may be used to reduce dead weight of the structure.
- F. Composite decks provide positive reinforcement for concrete slabs.

Answer: B,C,E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Composite floor decking advantages:

(A) Composite action reinforces slabs, improving strength.

(C) Metal decks serve as working platforms, speeding construction.

(D) Decks act as permanent formwork, eliminating temporary formwork.

(E) Lightweight concrete can be used to reduce structural weight.

(B) Shear connectors are required for composite action, so this is incorrect.

(F) Steel generally increases sound transmission compared to flat plate concrete, so false.

References:

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

NEW QUESTION # 25

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. Steel conduit is used to support and protect the conductors.
- D. Rigid polyvinyl chloride conduit provides a system ground path.

Answer: C

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 # 26

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