

# Project-Planning-Design Pass Test & Valid Project-Planning-Design Study Guide



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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q43-Q48):

### NEW QUESTION # 43

To reduce embodied energy in a 500-unit redevelopment, the architect should create a strategy to include which of the following? Check the three that apply.

- A. Re-use existing buildings and structures wherever possible
- B. Increase the percentage of single-story units
- C. Orient the building to create transitional spaces within the development
- D. Construct buildings and infrastructure from local and low-energy materials where possible

- E. Use simple geometric structures
- F. Decrease the percentage of high-rise units

**Answer: A,D,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Reducing embodied energy involves strategies that minimize new material production and transportation impacts:

Re-using existing buildings (A) avoids new material consumption and demolition waste.

Using local and low-energy materials (C) reduces transportation energy and energy-intensive materials.

Simple geometric structures (F) use fewer materials and minimize complexity, lowering embodied energy.

Orientation and transitional spaces (B) mainly affect operational energy, not embodied energy.

Altering the proportion of high-rise or single-story units (D, E) affects land use and operational efficiency more than embodied energy.

NCARB emphasizes these strategies in sustainable design practices.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Sustainable Design

The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Building Materials

#### NEW QUESTION # 44

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.

The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.

Considerations for the renovation include:

\*The relocated front entrance must be easily recognizable, highly visible, and secure.

\*Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.

\*Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.

After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.

Building information:

\*Construction Type is II-B.

The following resources are available for your reference:

\*Existing Plans, including site and floor plans

\*Proposed Plans, including site and floor plans

\*Cost Analysis

\*Zoning Ordinance Excerpts, for off-street parking requirements

\*IBC Excerpts, showing relevant code sections

\*ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design The project team decides to cover the roof area above the gymnasium and platform with 350 watt, stationary, photovoltaic (PV) panels. Each panel requires 20 square feet, accounting for access aisles and safety clearances. The PV system will be tied to the local power company's electrical grid, and will not have battery storage. The school is located in a region that gets an average of 4 usable hours of sunlight per day.

Which of the following PV system design considerations apply to this project? Check the three that apply.

Refer to the project involving an elementary school renovation and addition with photovoltaic (PV) panels on the gymnasium roof (350-watt panels, 20 sq ft each, ~4 usable sunlight hours/day). The PV system is grid-tied without battery storage.

Which of the following PV system design considerations apply? Check the three that apply.

- A. The PV system will produce approximately 95.5 kW during peak sun conditions.
- B. The PV system will be made up of approximately 273 panels.
- C. The gymnasium and platform structural system must be designed to support the load of the PV system.
- D. The PV system will reduce the need for artificial lighting in the gymnasium and platform areas.
- E. The PV system will provide emergency power for the school if the grid goes down.
- F. The PV panels should be mounted toward the student pick-up/drop-off.

**Answer: A,B,C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

B: Structural support must accommodate PV panel weight and wind loads.

C: Number of panels is calculated by dividing total roof area by panel area (total panel count # 273).

F: Peak power output = number of panels × wattage per panel ( $273 \times 350 \text{ W}$  # 95.5 kW).

A: Grid-tied systems without batteries do not provide power during outages.

D: PV panels generate electricity but do not directly reduce artificial lighting needs.

E: Panels are mounted for optimal solar exposure, not necessarily toward pick-up areas.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Solar Energy

The Architect's Handbook of Professional Practice, 15th Edition - Renewable Energy

#### NEW QUESTION # 45

If evaluating on a life-cycle basis, which of the following effects is the major reason for using native or adapted plantings on-site?

- A. Reduction in root adaptation time period
- B. Reduction in transplantation costs
- **C. Reduction in irrigation water and fertilizer**

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Native or adapted plantings are used primarily to reduce long-term environmental and maintenance costs in sustainable site design. The most significant life-cycle benefit is the reduction in irrigation water and fertilizer requirements because native plants are naturally suited to local climate and soil conditions. They typically require less supplemental watering, fertilizer, and pesticide use, which reduces resource consumption and maintenance efforts over the plantings' lifespan.

Option B (Reduction in root adaptation time period) is a minor factor relative to water and nutrient needs.

Option C (Reduction in transplantation costs) relates more to initial installation cost rather than long-term life-cycle impacts.

Using native or adapted plant species supports sustainable landscape design principles emphasized in the NCARB PPD content, contributing to water conservation, reduced chemical use, and improved ecological performance.

References:

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

#### NEW QUESTION # 46

Program requirements for a hospital with a clear span of 70 feet include minimal disruption of the hospital routine for future mechanical and electrical repairs and alterations and a maximum economical flexibility of the structure.

Which of the following structural systems is most appropriate?

- **A. Interstitial trusses**
- B. Plate girders
- C. Composite floor beams
- D. Precast concrete planks

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Interstitial trusses provide a structural space between floors specifically designed for mechanical and electrical systems, allowing future repairs and alterations without disrupting hospital routines. This system supports large spans and offers flexible layouts, aligning well with the hospital's needs.

Plate girders (B) and composite beams (C) do not inherently provide interstitial spaces and can limit flexibility.

Precast concrete planks (D) are durable but limit access to mechanical systems, increasing disruption during maintenance.

Therefore, interstitial trusses best support minimal disruption and structural flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies

#### NEW QUESTION # 47

□ Refer to the exhibit (stair connecting four stories, occupant load 100, not accessible exit).

Not including the permitted projection for handrails and stringers, what is the minimum clear width of the stair at dimension X?

- A. 36 inches
- B. 60 inches
- C. 48 inches
- D. 44 inches

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For stairs serving 100 occupants, building codes such as IBC require a minimum clear width of 44 inches to accommodate occupant egress.

36 inches is typical minimum for stairs serving smaller occupant loads.

Wider widths like 48 or 60 inches are required for higher occupant loads.

Handrails and projections may reduce nominal width but are not included in minimum clear width measurements.

References:

ARE 5.0 PPD - Codes and Regulations, Egress Requirements

IBC 2018 Chapter 10 - Means of Egress

#### NEW QUESTION # 48

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