

New PDD Exam Preparation - Practice PDD Exam

PDD Practice Exam 1 Questions & Answers 2024/2025

Conduction - ANSWERS- the transfer of heat from the warmer to the cooler particles of a medium or of 2 bodies in direct contact, occurring without perceptible displacement of the particles themselves

Convection - ANSWERS- the transfer of heat by the circulatory motion of the heated parts of a liquid or gas owing to a variation in density and the action of gravity. In other words, the body gives off heat to the surrounding cooler air

- a large differential between air and skin temperature and increased air motion induce more heat transmission by _____

Radiation - ANSWERS- the process by which heat energy in the form of electromagnetic waves is emitted by a warm body, transmitted through an intervening space, and absorbed by a cooler body. No air motion is required for the transfer of heat

- Light colors reflect while dark colors absorb heat; poor reflectors make good radiators

Evaporation - ANSWERS- heat is required for the _____ process of converting body moisture into a vapor

- heat loss by evaporation increases with air motion

- _____ cooling is especially beneficial when high air temperatures, humidity, and activity levels exist

Relative Humidity (RH) - ANSWERS- _____ is the ratio of the amount of water vapor actually present in the air to the max amount that the air could hold at the same temperature, expressed as a %

- The higher the _____ of a space, the lower the air temperature should be

- _____ is more critical at high temperatures than within the normal temperature range

Air Motion (V) - ANSWERS- _____ increases loss by convection and evaporation

- The cooler the moving air stream is, relative to the room air temperature, the less velocity it should have

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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q89-Q94):

NEW QUESTION # 89

Owners of a busy two-story theater complex want to renovate. The new renovations include increasing the second floor lobby and doubling the number of second floor movie screens. The owner favors the use of escalators. Movies are scheduled to start simultaneously every three hours. The theater currently has a pair of 24-inch-wide parallel escalators, one of which goes up and the other down.

Which of the following should be proposed to accommodate the increased traffic to the second floor?

- A. Install a new escalator that reverses direction
- B. Increase the existing escalator speeds to 130 fpm
- C. Extend balustrades at escalator landings
- D. Install a new elevator in the lobby

Answer: A

Explanation:

Given:

The theater doubles its second-floor movie screens, increasing patron traffic.

Existing escalators are two 24-inch wide units, one up and one down, with simultaneous movie start times every 3 hours.

To handle increased traffic:

Increasing existing escalator speed to 130 fpm (option A) is limited by safety and code limits (typically max around 100 fpm); also increases wear.

Installing a new elevator (option B) is helpful for accessibility but does not efficiently handle high flow of large crowds during peak.

Installing a new escalator that reverses direction (option C) (also called a "dance" or "two-way" escalator) allows flexibility to accommodate peak traffic flow-e.g., two escalators up during rush times and one down, or vice versa.

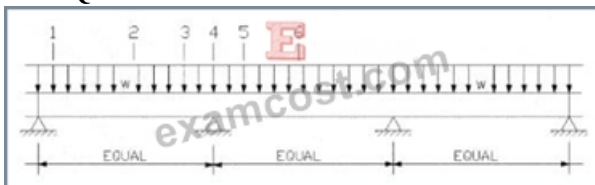
Extending balustrades (option D) improves safety but does not increase capacity.

Therefore, option C is the best solution to manage increased passenger flow.

References:

NCARB ARE 5.0 Review Manual, Environmental Systems and Building Services chapter Vertical transportation design principles in public assembly spaces ASME A17.1 Safety Code for Elevators and Escalators

NEW QUESTION # 90



Refer to the exhibit.

It is required to cut a hole in the web of the beam shown.

Which of the locations would be best? Check the two that apply.

- A. Location 5
- B. Location 4
- C. Location 2
- D. Location 3
- E. Location 1

Answer: B,C

Explanation:

Cutting holes in beam webs is common for running mechanical, electrical, or plumbing services but must be done carefully to avoid weakening structural integrity.

Holes should be located near mid-span supports (points of low bending moment and high shear) to reduce impact on beam bending strength.

Holes should not be located near areas of maximum bending moment (typically mid-span between supports), because this is where the beam experiences maximum tension or compression.

Locations 2 and 4 are at or near the beam supports (shear zones), and generally small holes can be cut there, following size limits

and reinforcement guidelines.

Locations 1, 3, and 5 are closer to mid-span or areas of high bending stress, so holes here risk compromising the beam's moment capacity.

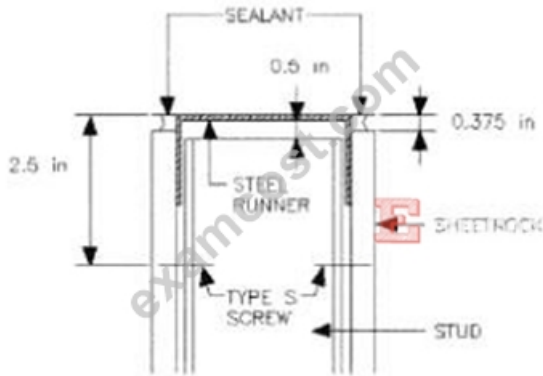
References:

NCARB ARE 5.0 Review Manual, Structural Systems chapter

Steel construction and beam design guidelines (AISC)

Building codes and structural engineering best practices for web penetrations

NEW QUESTION # 91



Refer to the exhibit.

The construction method shown in the detail should be used to prevent cracking in which of the following situations?

- A. Concrete frame buildings with drywall suspended ceilings
- B. Concrete flat slab buildings with exposed slab ceilings
- C. Exposed structural steel frame with no partitions to the structure
- D. Structural steel frame buildings with plaster ceilings

Answer: A

Explanation:

The detail shows a steel runner with sheetrock and screws, typical for drywall suspended ceiling assemblies.

This construction method is commonly used in concrete frame buildings with drywall ceilings suspended below the structural slab.

It helps prevent cracking by accommodating building movement and separating finish materials from structural movement.

Structural steel frame buildings with plaster ceilings typically have different finish and framing details.

Concrete flat slabs with exposed ceilings have no finish requiring such assemblies.

Exposed steel frames without partitions don't need drywall framing.

Reference:

NCARB ARE 5.0 Review Manual, Materials and Assemblies chapter

Interior finishes and drywall system installation guides (Gypsum Association)

NEW QUESTION # 92

Which of the following have natural resins that resist termite attack? (Check the two that apply)

- A. Douglas fir
- B. Southern yellow pine
- C. Cypress
- D. Hemlock
- E. Oak
- F. Red cedar

Answer: C,F

Explanation:

In wood selection for exterior construction, certain species' heartwoods contain natural extractives/resins that deter decay and insect activity. Western Red Cedar and Cypress are well known for natural durability and termite resistance without chemical treatment.

Species such as Douglas fir, hemlock, southern yellow pine, and most oaks are not reliably termite-resistant in their sapwood and

typically require preservative treatment for use in termite zones.

PDD References: NCARB ARE 5.0 PDD content area "Materials & Assemblies-Wood" (durability/decay resistance), CSI Div. 06 wood materials selection notes, and IBC Appx. on decay- and termite-prone areas- select naturally durable species or preservative treatment.

NEW QUESTION # 93



Refer to the exhibit.

For a plywood panel carrying the grade stamp shown, which of the following is the maximum recommended span for use in a floor system?

- A. 16 in
- B. 108 in
- C. 15 in
- D. 32 in

Answer: A

Explanation:

1. Understanding the APA Grade Stamp

The stamp in the exhibit reads:

- * APA RATED SHEATHING 32/16
- * 15/32 INCH (thickness)
- * SIZED FOR SPACING
- * EXPOSURE 1 (can handle temporary moisture exposure)

2. Meaning of "32/16"

The numbers 32/16 are the span ratings for the panel:

- * 32 inches = maximum recommended span for roof sheathing (when applied perpendicular to supports).
- * 16 inches = maximum recommended span for floor sheathing (when applied perpendicular to supports).

These ratings are established by APA (The Engineered Wood Association) based on panel thickness, grade, and allowable loads/deflection limits.

3. Applying to the Question

The question asks specifically for maximum recommended span for use in a floor system.

From the stamp:

- * Floor span rating = 16 inches
- * Therefore, the correct answer is 16 in.

4. Why Other Options Are Incorrect:

- * A. 15 in - Not the value given; 16 in is the rating.
- * C. 32 in - This is for roof applications, not floor systems.
- * D. 108 in - Not related to APA span ratings; possibly confused with the certification number "NBR-108."

5. NCARB ARE 5.0 PDD Study Guide References:

- * Content Area: Building Materials & Assemblies - Wood Products
- * Reference Sources:
 - * APA - The Engineered Wood Association: Panel Span Ratings Guide
 - * Building Construction Illustrated (Ching) - Plywood and OSB Panel Markings
 - * IBC Chapter 23 - Wood span and application requirements

NEW QUESTION # 94

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