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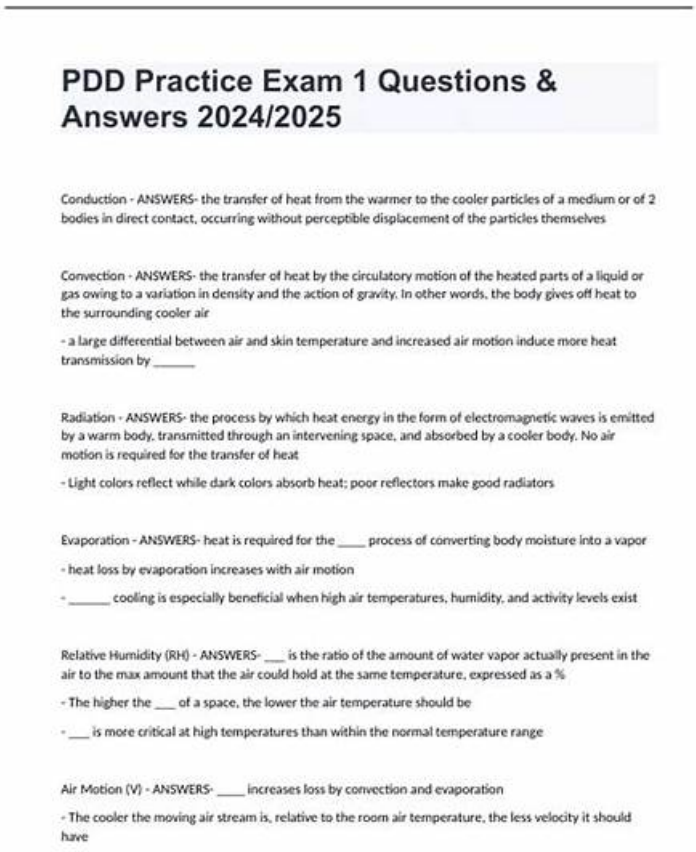

PDD Practice Exam 1 Questions & Answers 2024/2025

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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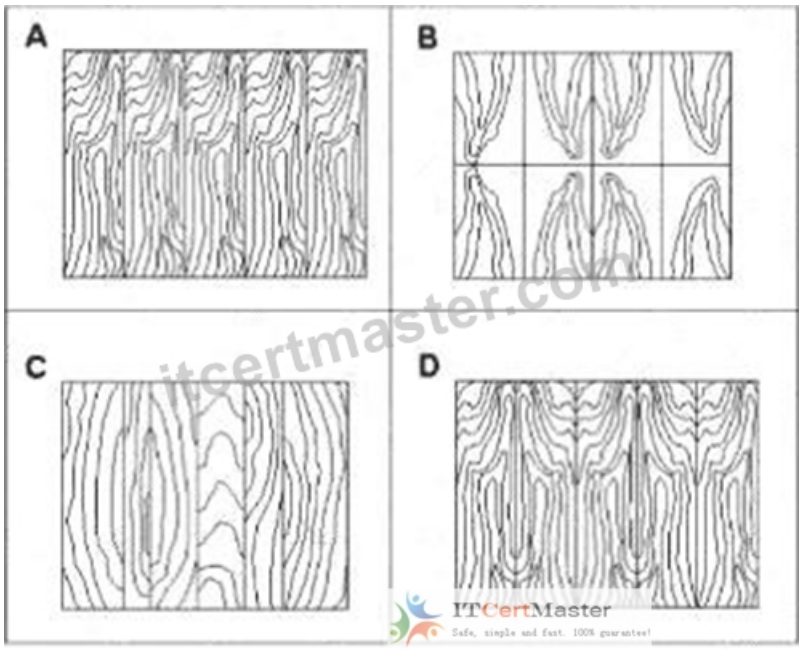
NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	• Codes & Regulations: This section of the exam measures skills of Building Code Specialists and examines how codes and regulations apply at a detailed level during documentation. Candidates are expected to demonstrate knowledge of compliance with the International Building Code (IBC) as well as other specialty regulations, as well as how to interpret and apply these standards to ensure design and documentation meet legal and safety requirements.
Topic 2	• Construction Cost: This section of the exam measures the skills of Construction Managers and focuses on the financial side of project execution. It evaluates the ability to analyze construction cost estimates to confirm that they align with project design intent and budgetary constraints. Although this is the smallest section, it is critical for ensuring projects remain feasible and economically viable.
Topic 3	• Project Manual & Specifications: This section of the exam measures the skills of Specifications Writers and emphasizes the importance of developing documentation that goes beyond drawings. Candidates must understand how to identify and prioritize elements needed to prepare, maintain, and refine both the project manual and project specifications. It also assesses the ability to align and coordinate these specifications with the construction documents to ensure consistency and accuracy.
Topic 4	• Construction Documentation: This section of the exam measures skills of Project Architects and addresses the creation and management of project documentation. Candidates are expected to demonstrate knowledge of documenting building design and site features, preparing detailed architectural drawings, and applying industry standards to produce a coordinated set of construction documents. The section also includes understanding how project changes impact documentation and how to communicate these updates effectively to both the design team and the client.:
Topic 5	• Integration of Building Materials & Systems: This section of the exam measures the skills of Architectural Designers and focuses on the ability to resolve and integrate various building systems into cohesive project goals. It covers analyzing architectural systems and technologies, determining the size of structural, mechanical, electrical, and plumbing systems, and incorporating specialty systems such as acoustics, lighting, security, and communications. It also evaluates the ability to detail how multiple building systems work together and to coordinate across disciplines to achieve a unified design.

NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q77-Q82):

NEW QUESTION # 77



Refer to the exhibit.
Which of the following examples of wood paneling depicts the method of "slip matching" between adjacent wood veneers?

- A. C
- B. D
- C. B
- D. A

Answer: D

Explanation:
Understanding Slip Matching in Wood Veneer
When wood veneer is sliced from a log, each sheet (or "leaf") has a repeating grain pattern. How those sheets are arranged side-by-side on a panel is called the matching method.
Slip Matching:
* Consecutive leaves are laid side-by-side without flipping or reversing them.
* This creates a repeating grain pattern that flows consistently across the panel.
* The result is a uniform, continuous grain with no "mirror image" effect - the cathedrals and figure in the grain run in the same direction from sheet to sheet.
* Slip matching often produces a striped effect if the grain is straight, or a flowing, consistent repeat if the grain is more figured.
Identifying Slip Matching in the Exhibit:
* Option A shows consecutive veneer leaves with the grain pattern running in the same orientation across the panel - no mirroring, only repetition. This is classic slip match.
* Option B shows book matching - where every other leaf is flipped horizontally to create a mirrored grain pattern.
* Option C appears to be random matching - leaves are placed without grain sequence alignment.
* Option D shows reverse slip matching - similar to slip match but alternating leaves are reversed end- to-end.
NCARB ARE 5.0 PDD Study Guide References:
* Content Area: Integration of Materials & Finishes - Millwork and Casework Veneer Matching Methods
* Sources:
* Architectural Woodwork Standards (AWS) - Section on Veneer Matching
* Architectural Graphic Standards - Finish Carpentry and Veneer Matching
* Building Construction Illustrated (Ching) - Interior Finish Carpentry Key Point:
Slip matching keeps all veneer leaves in the same orientation, producing a consistent flow of the grain without the mirrored effect seen in book matching.

NEW QUESTION # 78
An architect is designing a new poured-in-place concrete residential tower with individual condo units. The drawings specify exposed cantilevered concrete balconies with glass guardrail parapets. The exterior wall specifications have already been developed and established. They are now coordinating the specification requirements for construction of the balconies in the project manual.
Which items are required to be specified as part of the balcony scope? (Check the four that apply)

- A. Drainage
- B. Furnishings
- C. Glazing system
- D. Guardrail anchoring
- E. Floor finish coating
- F. Door types

Answer: A,C,D,E

Explanation:
In NCARB ARE 5.0 PDD, balconies are considered part of the building envelope and exterior assembly, requiring coordination between structural, architectural, and sometimes MEP elements. The project manual's specification sections for balconies should include all components integral to the balcony's construction and performance - not unrelated furnishings or general door types unless they are directly part of the balcony system.
Reasoning for each selection:
A). Drainage - REQUIRED:
Balconies must include drainage provisions to prevent standing water, freeze-thaw damage, and leakage into units. This is part of Division 07 (Thermal and Moisture Protection) in the CSI MasterFormat and directly tied to durability and code requirements.
B). Floor finish coating - REQUIRED:
The balcony surface finish must be specified for slip resistance, durability, weather resistance, and integration with waterproofing membranes. This is usually in Division 09 (Finishes) but referenced in Division 07 for waterproof coatings.
E). Guardrail anchoring - REQUIRED:
Structural anchorage details for the glass guardrail parapets must be specified to meet IBC load requirements (200 lb concentrated load per IBC 1607.8) and to ensure safety. This falls under Division 05 (Metals) or Division 05/08 integration.
F). Glazing system - REQUIRED:
Glass guardrails involve tempered or laminated safety glazing per IBC Chapter 24 and must be specified, including thickness, type, finish, and installation method.
Why the others are excluded:
C). Furnishings - NOT REQUIRED: Balconies may have furniture, but these are FF&E, not part of the construction scope in the balcony specification.
D). Door types - NOT REQUIRED: Doors leading to balconies are part of the exterior wall fenestration package, not the balcony construction section.
NCARB PDD References:
ARE 5.0 Handbook - PDD Section: Integration of building systems and detailing of assemblies CSI MasterFormat Divisions 05, 07, 08, 09 for balcony scope items IBC 2018 Sections 1607.8, 1015 for guardrail design

NEW QUESTION # 79
What is the most destructive factor affecting the durability of mortar joints?

- A. Efflorescence
- B. Wind loading
- C. Location of control joints
- D. Expansion of moisture by freezing

Answer: D

Explanation:
The most destructive factor for mortar joints is freeze-thaw cycling: absorbed moisture expands upon freezing (~9% volume increase), creating internal stresses that crack mortar and spall joints.
A: Wind loading affects wall stability, not directly mortar joint durability.
B: Control joints manage thermal/movement cracks but aren't the main durability factor.
C: Efflorescence is cosmetic and less destructive than freeze-thaw action.
PDD Reference: Masonry durability-Moisture management; ASTM C270 Mortar Specs; ARE 5.0 PDD
"Building envelope durability in cold climates."

NEW QUESTION # 80
A project located in a rural area without municipal sewer access will most likely require:

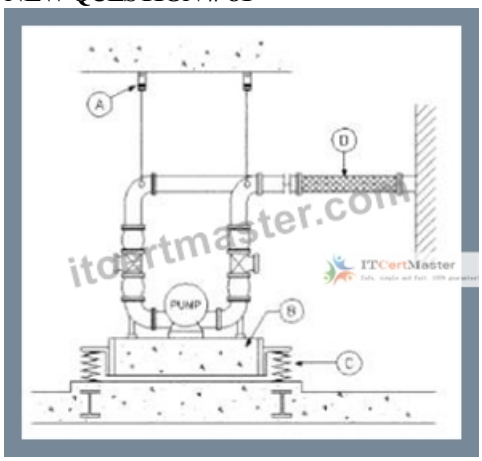
- A. Oil-water separator

- B. Grease interceptor
- C. Septic tank and leach field
- D. Ejector pump

Answer: C

Explanation:
Where no public sewer is available, on-site wastewater treatment (septic tank + leach field) is required. This supports Objective 3.2, considering utility systems and site limitations.

NEW QUESTION # 81



Refer to the exhibit.
Which device allows for piping misalignment and isolation?

- A. A
- B. C
- C. B
- D. D

Answer: D

Explanation:
Understanding the Diagram
The image shows a pump installation detail with various vibration and alignment control devices:
* A - Typically a pipe hanger or suspension support to reduce strain on piping.
* B - Likely a flexible electrical conduit (for pump motor connection).
* C - Spring vibration isolators under the pump base to prevent vibration transmission into the building structure.
* D - A flexible pipe connector (also called a flex connector or braided flexible coupling).
Purpose of Flexible Pipe Connectors
Flexible pipe connectors (D in the diagram) are designed to:
* Absorb minor misalignment between connected piping systems.
* Reduce stress on pump flanges due to thermal expansion, settlement, or installation tolerances.
* Isolate vibration from the pump so that it is not transmitted along rigid piping to the building structure.
This makes them essential in mechanical systems where pumps, chillers, or other vibrating equipment connect to rigid building piping.
Why Other Options Are Incorrect:
* A. Pipe hangers/supports - Maintain alignment and support vertical loads but do not allow for misalignment or vibration isolation in the same way as flexible connectors.
* B. Electrical conduit/flexible connection - Relates to electrical supply flexibility, not piping alignment.
* C. Spring vibration isolators - Isolate vibration from equipment to the floor but do not address piping misalignment.
NCARB ARE 5.0 PDD Study Guide References:
* Content Area: Integration of Building Materials & Systems - Mechanical Systems Coordination
* Source References:
* Mechanical and Electrical Equipment for Buildings (MEEB) - Chapter on Vibration Isolation & Pump Installation
* Architectural Graphic Standards - Flexible Connector & Piping Details
* Key Point: Flexible connectors at pumps and equipment protect against misalignment, vibration, and stress transfer to the piping system.

NEW QUESTION # 82

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