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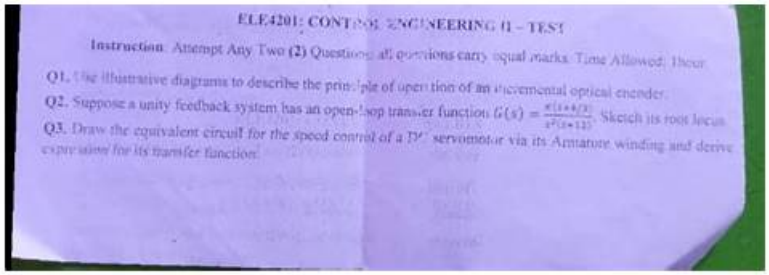
ELE4201: CONTROL ENGINEERING II – TEST

Instruction: Attempt Any Two (2) Questions; all questions carry equal marks. Time Allowed: 1hour

Q1. Use illustrative diagrams to describe the principle of operation of an incremental optical encoder.

Q2. Suppose a unity feedback system has an open-loop transfer function $G(s) = \frac{K(s+6/7)}{s^2(s+12)}$. Sketch its root locus.

Q3. Draw the equivalent circuit for the speed control of a DC servomotor via its Armature winding and derive expressions for its transfer function.

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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• Modeling: This section of the exam measures the skills of Electrical Designers and covers creating and managing electrical elements within Revit. It includes adding electrical equipment such as panelboards and transformers, configuring circuits and low-voltage systems, and using the System Browser for navigation. Candidates must also demonstrate the ability to model connecting geometry, including conduits, cable trays, and wiring, with appropriate settings and fittings.
Topic 2	• Documentation: This section of the exam measures the skills of Revit Technicians and covers manipulating views, templates, and schedules to produce accurate documentation. It includes managing panel schedules, creating various view types such as legends, callouts, and 3D views, and applying phasing and revision management. Candidates are also tested on annotation tools, including tags, keynotes, and note blocks, to ensure clarity and consistency in project documentation.
Topic 3	• Families: This section of the exam measures the skills of BIM Modelers and focuses on creating and editing Revit families. It includes defining MEP connectors, understanding system and component family types, configuring family categories, and setting up light sources. The section also assesses parameter creation, annotation family setup, and controlling element visibility to ensure effective customization and reuse across electrical projects.
Topic 4	• Collaboration: This section of the exam measures the skills of Project Coordinators and covers collaboration workflows in Revit. It includes working with imported and linked files, managing worksharing concepts, and using interference checks. Candidates are also evaluated on data coordination through copy • monitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.
Topic 5	• Analysis: This section of the exam measures the skills of Electrical Engineers and focuses on performing analytical tasks in Revit. It includes conducting load calculations, conceptual lighting analysis, and configuring electrical settings for load classifications and demand factors. Candidates must show the ability to use Revit's analysis tools to ensure proper electrical design performance and energy efficiency.

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Revit for Electrical Design Updated Valid Study Questions

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q57-Q62):

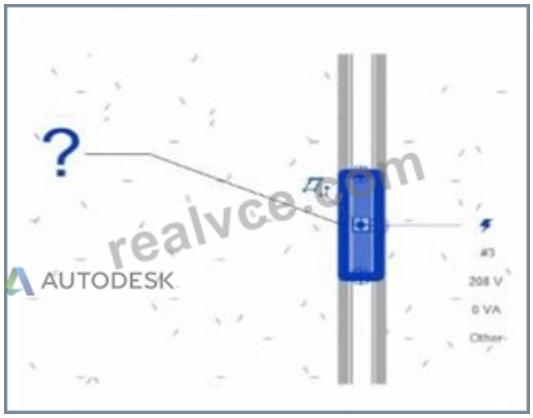
NEW QUESTION # 57
What two ways can an electrical designer copy a cable tray type from a project to a template? (Select two.)

- A. 1. Open the project and the template In separate Revit sessions.
  2. In the project, copy the cable tray to the clipboard.
  3. Switch to the template and paste the cable tray in a view.
- B. 1. Open both the project and the template in the same Revit session.
  2. In the project, select the cable tray and click Edit Family.
  3. Click Load into Project and select the template to load the family into.
- C. 1. Open both the project and the template in the same Revit session.
  2. In the project, copy the cable tray to the clipboard.
  3. Switch to the template and paste the cable tray in a view.
- D. 1. Open the project and the template in separate Revit sessions.
  2. In the template, activate Transfer Project Standards.
  3. Choose to copy from the project and then select Cable Tray Types.
- E. 1 Open both the project and the template in the same Revit session.
  2. In the template, activate Transfer Project Standards.
  3. Choose to copy from the project and then select Cable Tray Types.

Answer: C,E

Explanation:
In Autodesk Revit for Electrical Design, there are two correct and officially supported methods to transfer or copy Cable Tray Types (including sizes, materials, and type properties) from an existing project into a template file (.rte). These methods ensure that all type definitions, fittings, and related MEP settings are preserved.
 Option B (Clipboard Copy within the same Revit session)
1. Open both the project and the template in the same Revit session.
2. In the project, copy the cable tray to the clipboard.
3. Switch to the template and paste the cable tray in a view.
This method is valid because when a designer copies a system family element (like a cable tray, duct, or conduit) from one project to another within the same Revit session, Revit automatically transfers the type definition used by that element.
According to the Revit MEP User's Guide, Chapter 17 - Electrical Systems:
"Copying a cable tray from one project to another carries its type properties with it, including size, material, and fittings, as Revit automatically loads the associated system family definition." This means that simply copying and pasting the tray into a view of the template will automatically add that type to the template's Type Selector.
 Option C (Transfer Project Standards)
1. Open both the project and the template in the same Revit session.
2. In the template, activate Transfer Project Standards.
3. Choose to copy from the project and then select Cable Tray Types.
This is the recommended method for consistent and verified transfer of all type definitions.
From the same guide under Panel Schedule Templates and System Types Management:
"Use Transfer Project Standards to copy system family types, such as Cable Tray Types, Conduit Types, and related MEP settings, between projects or into templates." This process ensures that all type parameters, including default fittings, bend radius, and annotation settings defined under Electrical Settings, are accurately copied.
References:
Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 407-409 (Cable Tray Management and Transfer Standards) Autodesk Revit MEP 2011 What's New - Section "Copy Styles Using Transfer Project Standards" Smithsonian Facilities Revit Template User's Guide - "Transferring MEP Types into Templates," pp. 68-71

NEW QUESTION # 58
Exhibit.



An electrical designer creates a panel schedule. Which Electrical Equipment parameter defines the default name of the panel schedule view?

- A. Panel Name
- B. Description
- C. Mark
- D. Type Mark

Answer: A

Explanation:
In Autodesk Revit for Electrical Design, when a designer creates a panel schedule, the default name of the panel schedule view is automatically derived from the Panel Name parameter of the Electrical Equipment family to which the circuits are assigned.
According to the Revit MEP User's Guide (Electrical Systems section: Panel Schedules):
"When you create a panel schedule, Revit uses the Panel Name parameter of the electrical equipment to define the default schedule name. The Panel Name identifies the distribution panel that supplies the circuits. This name appears in both the Panel Schedule view and in circuit information tags."
- Revit MEP User's Guide, Chapter 17: Electrical Systems - Panel Schedules The Panel Name is a critical electrical equipment instance parameter located in the Electrical - Circuiting group of properties.
It appears in both the Electrical Equipment Properties Palette and the Panel Schedule Header. This name can later be modified manually, but by default, it directly controls the naming convention of the generated schedule.
In contrast:
A . Type Mark - identifies types within the family for documentation and does not control schedule naming.
B . Mark - a unique instance identifier often used for tags, but not for panel schedule view naming.
C . Description - provides descriptive text only for documentation or labeling.
D . Panel Name - correctly defines and drives the default schedule view name for panels and circuits.
When a panel (electrical equipment) is placed in the model and circuits are connected, Revit generates a new Panel Schedule View automatically titled using the value entered in the Panel Name field (e.g., "Panel LP-1"). This ensures consistency between the modeled equipment and the schedule documentation.
Verified Reference Extracts from Revit for Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011), Chapter 17: Electrical Systems - Creating and Editing Panel Schedules:
"The name of the panel schedule view is determined by the Panel Name property of the electrical equipment." Revit MEP Electrical Design Training Manual, Module: Electrical Equipment and Panel Schedules:
"Panel Name is used by Revit as the default identifier for any panel schedule view created for that equipment."

NEW QUESTION # 59
An electrical designer needs to check for Interferences between conduit in the host model and beams in a linked structure model in the Interference Check dialog, select the items that the designer must select to perform the interference check. (Select two.)

Answer area

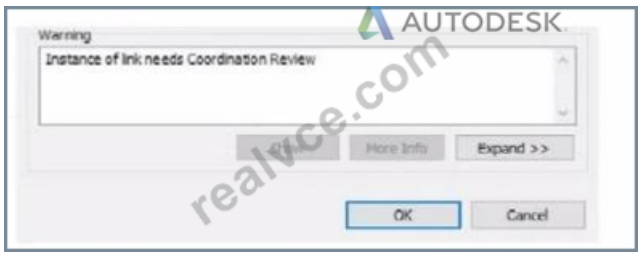
Answer:

Explanation:

Answer area

NEW QUESTION # 60

Exhibit.



An electrical designer is working within a workshared electrical model The designer reloads the linked architectural model and receives the message as shown in the exhibit What does this message indicate?

- A. There is a new interference with the architectural model.
- B. A monitored element in the architectural model has changed.
- C. An elements host within the architectural model has changed.
- D. There is a new coordination message within the architectural model.

Answer: B

Explanation:

The warning message shown - "Instance of link needs Coordination Review" - appears when Revit detects a modification in a monitored element within a linked model, typically during a coordination workflow between architectural and MEP (electrical, mechanical, plumbing) disciplines.

According to the Revit MEP User's Guide (Chapter 46 "Copy/Monitor and Coordination Review"):

"When a monitored element changes in the linked model, Revit displays a warning message indicating that the instance of the link needs Coordination Review. You can use the Coordination Review tool to accept, reject, or postpone the change." This mechanism ensures synchronization between linked models. For example, if the architectural ceiling or wall that hosts electrical elements (such as lighting fixtures or devices) is modified, moved, or deleted, Revit triggers this alert in the workshared MEP model.

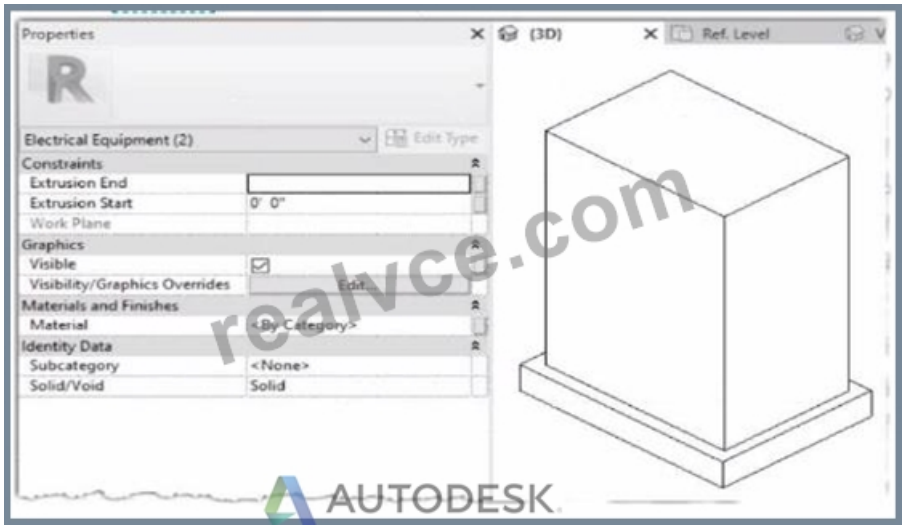
The Smithsonian Facilities Template Guide further emphasizes:

"Coordination Review identifies monitored elements whose hosts or geometry have changed in a linked model. The designer must review these to maintain design consistency." Hence, the warning does not indicate a clash or interference (Option A), nor a coordination message created manually in the architectural model (Option B), but specifically a change in a monitored element in the linked architectural model (Option D).

References:

Autodesk Revit MEP User's Guide - Chapter 46 "Copy/Monitor and Coordination Review," pp. 1084-1088 Smithsonian Facilities Revit Template User's Guide - Section 3.4 "Coordination Views," p. 86 Autodesk Revit Electrical Design Essentials - Coordination Workflows and Monitoring Elements

NEW QUESTION # 61
Refer to exhibits.



When loaded into a project, the family displays as below in plan view.

The electrical designer is satisfied with the line color and weight of the transformer because it matches all other electrical equipment in the project. However, the designer wants the housekeeping pad to display with different line properties as shown below.

How can this be achieved?
An electrical designer creates a simple family of a transformer with a concrete housekeeping pad using two rectangular extrusions. Both extrusions and their properties within the family editor are shown.

- A. Within the family editor, create a new object style subcategory with the desired properties. Assign that subcategory to the housekeeping pad object.
- B. Within the project, right-click and select Override Graphics in View from the context menu. Edit the line properties as desired.
- C. Within the family editor, right-click the housekeeping pad object and select Visibility from the context menu. Edit the line properties as desired.
- D. Within the family editor, select the housekeeping pod object and change it from a solid to a void.

Answer: A

Explanation:
In Autodesk Revit Electrical Design, when customizing a family-such as a transformer with a housekeeping pad-each element within the family can have its own subcategory under the parent category (in this case, Electrical Equipment). Subcategories are critical for controlling line weight, color, and material properties independently in project views and visibility settings.
The issue described is that the transformer and its concrete pad currently share the same default category (Electrical Equipment) and therefore use identical line weights and colors in plan view. The designer wants the housekeeping pad to display differently - for example, with a lighter or dashed outline.
According to the Autodesk Revit MEP User's Guide (Chapter: Creating and Editing Families):
"To control the visibility or graphical appearance of individual components within a family, create a new Object Styles subcategory

under the parent category. You can then assign any solid or void geometry in the family to that subcategory. When loaded into a project, the subcategory can be independently controlled through Visibility/Graphics (VG) settings." This is the exact and recommended workflow for differentiating line appearances between elements in the same family.
Steps to achieve this:
In the Family Editor, open Manage tab ➢ Object Styles.
Under the Model Objects tab, click New to create a new subcategory (e.g., "Housekeeping Pad").
Set the desired line weight, color, or material properties.
Select the housekeeping pad extrusion in the model.
In the Properties palette, under Identity Data → Subcategory, choose Housekeeping Pad.
Reload the family into the project.
You can now modify or control its visibility independently in project views.
Why the other options are incorrect:
A . Change to void: A void removes geometry, not graphical appearance.
B . Override Graphics in View: Applies only in a single view, not globally across the project.
D . Visibility from context menu: Controls whether the object is visible, not its line properties.
Thus, the most efficient, parametric, and Revit-standard method is to use subcategories within the family to apply distinct graphical controls.
References:
Autodesk Revit MEP 2011 User's Guide, Chapter 53: Creating Families - Managing Object Styles, pp. 1248-1251.
Autodesk Revit Architecture 2020 Help, "Assigning Geometry to Subcategories in Families." Smithsonian Facilities Revit Template User's Guide (2021), Section 8.4.1 - Electrical Equipment Family Standards and Subcategories.

NEW QUESTION # 62
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