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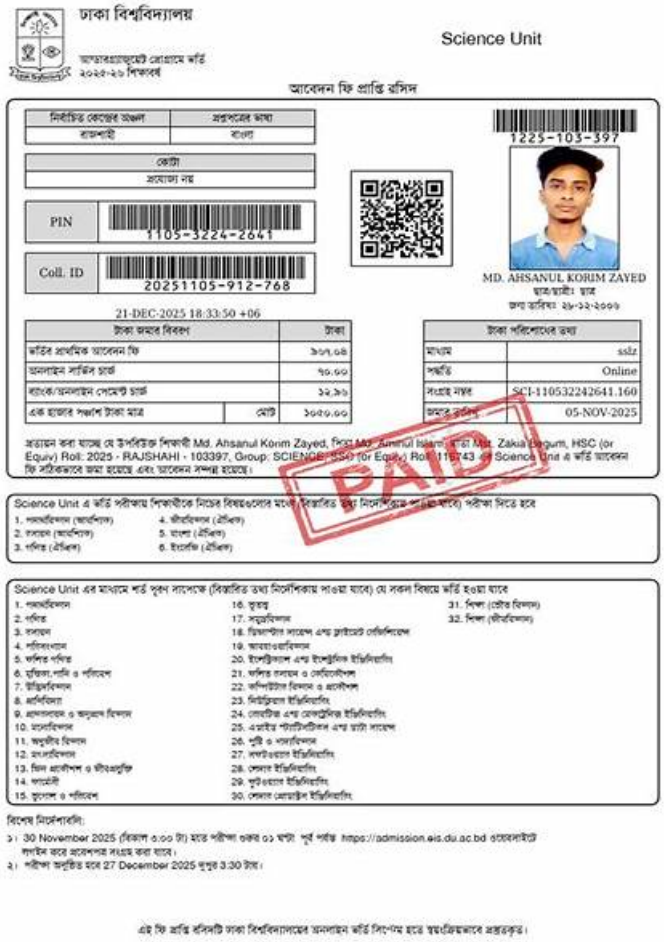
ঢাকা বিশ্ববিদ্যালয়

Science Unit

আবেদন ফি প্রাপ্তি রসিদ

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Science Unit এর মাধ্যমে শর্ত পূরণ সাপেক্ষে (বিস্তারিত তথ্য নিম্নোক্ত ওয়েবসাইটে) যে সকল বিষয়ে ভর্তি হওয়া যাবে

বিশেষ নির্দেশাবলি:

১। 30 November 2025 (বিকাল ৩.০০ টা) হতে পরীক্ষা শুরুর ০১ ঘণ্টা পূর্ব পর্যন্ত https://admission.eis.du.ac.bd ওয়েবসাইটে লগইন করে প্রবেশপত্র সংগ্রহ করা যাবে।

২। পরীক্ষা অনুষ্ঠিত হবে 27 December 2025 দুপুর 3.30 টায়।

এই ফি প্রাপ্তি রসিদটি ঢাকা বিশ্ববিদ্যালয়ের অনলাইন ভর্তি সিস্টেম হতে স্বয়ংক্রিয়ভাবে প্রস্তুতকৃত।

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Autodesk RVT_ELEC_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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 5	• 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.

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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q64-Q69):

NEW QUESTION # 64
What should an electrical designer do to associate a lighting device with light fixtures in a model?

- A. Create an electrical circuit including the light fixtures and switch as one selection.
- B. Create a switch system by selecting a switch and then adding lights
- C. Create a switch system using the light fixtures to define the system and add the switch.
- D. Create an electrical circuit using the light fixtures to define the system and add the switch.

Answer: B

Explanation:
In Autodesk Revit Electrical Design, a lighting device (switch) must be associated with lighting fixtures through a switch system, not through electrical circuits. Switch systems are independent of lighting circuits and wiring, as they are intended to represent the control relationship between a light switch and the lighting fixtures it operates.
According to the Autodesk Revit MEP User's Guide (Chapter 17 - Electrical Systems, pages 475-478), the official method is described under "Creating a Switch System."
"You can assign lighting fixtures to specific switches in a project.
The switch system is independent of lighting circuits and wiring."
(Revit MEP User's Guide, p. 475)
"To create a switch system:
Select one or more lighting fixtures in a view, and click
Modify | Lighting Fixtures tab ➤ Create Systems panel ➤ Switch.
Click Switch Systems tab ➤ System Tools panel ➤ Edit Switch System.
Click Add to System, and select one or more lighting fixtures.
Click Select Switch, and select a switch in the drawing area.

Click Finish Editing System."**
(Revit MEP User's Guide, p. 476)
How It Works:
The switch system links a lighting device (switch) with lighting fixtures, enabling Revit to manage how light fixtures respond to specific switches.
Unlike electrical circuits, which define power flow and load connections to panels, the switch system defines control logic (which lights are turned on/off by which switch).
The designer begins by selecting the switch and then adding lights to its system, ensuring all lights associated with that switch are grouped correctly.
Supporting Extract from Revit Documentation:
"You can also create a lighting switch system by right-clicking the connector for a lighting fixture and clicking Create Switch System."
(Revit MEP User's Guide, p. 475)
"Add lighting fixtures to the switch system...
Click Select Switch and select a switch in the drawing area."
(Revit MEP User's Guide, p. 476)
"The switch system is independent of lighting circuits and wiring."
(Revit MEP User's Guide, p. 475)
Conclusion:
To associate a lighting device (switch) with light fixtures in a Revit electrical model, the designer must create a switch system. This is done by selecting the switch, then adding the desired lighting fixtures to that system using the Add to System and Select Switch tools under the Switch Systems tab.

NEW QUESTION # 65
Refer to exhibit.

An electrical designer is circuiting a dwelling unit. The receptacle (electrical fixture) shown must be controlled by the switch (lighting device) shown to switch a plug-in lamp When the receptacle is selected, Revit does not provide an option to add the receptacle to a switch system.
What is causing this issue?

- A. A switch system has not yet been created.
- B. The receptacle's "Switchable" option Is not selected within the family editor.
- C. Only lighting fixtures can be added to switch systems.
- D. The switch and the receptacle are not on the same circuit

Answer: B

Explanation:
In Autodesk Revit Electrical Design, when an electrical designer attempts to control a receptacle (an Electrical Fixture family) with a switch (a Lighting Device family) as part of a switch system, Revit will only allow this connection if the receptacle's family has been

configured as Switchable within the Family Editor.
According to the Autodesk Revit MEP User's Guide (Chapter 17 - "Electrical Systems"):
"Revit allows you to add elements such as lighting fixtures or receptacles to a switch system only if the family includes a switchable connector. The 'Switchable' parameter must be enabled in the Family Editor to allow this connection." This means that for the receptacle shown in the exhibit to appear as an available component for switching, the Electrical Connector within its family must have the Switchable property checked. This parameter is found under:
Family Editor → Select Connector → Properties Palette → Electrical - Data → Switchable.
If this option is not enabled, Revit treats the receptacle as a standard unswitched outlet and will not display it in the switch system creation dialog. Once the option is checked, the designer can reload the family into the project and associate it with a switch system normally.
Additionally, the Smithsonian Facilities Revit Template User's Guide explains this concept as follows:
"To associate receptacles with lighting switches, ensure that the receptacle family has a switchable connector. Without this setting, the device will not appear as an assignable component to a switch system." This distinction is important in residential electrical modeling, where switched receptacles are common for plug-in lamps. Lighting circuits can include both Lighting Fixtures and Switchable Receptacles when the family configuration supports it.
Incorrect Options Explanation:
A . A switch system not being created is irrelevant - the issue occurs before system creation.
C . Being on the same circuit doesn't affect switchability; it affects electrical load connection.
D . Incorrect - Revit supports switchable receptacles if properly configured.
Therefore, the correct answer is B. The receptacle's "Switchable" option is not selected within the family editor.
References:
Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 417-421 Autodesk Revit Electrical Design Essentials - Section "Creating and Editing Electrical Fixtures and Switch Systems" Smithsonian Facilities Revit Template User's Guide - Section 8.4 "Switchable Receptacle Family Standards," p. 89

NEW QUESTION # 66
Refer to the exhibit.

- A. Object Styles > Conduits > Rise/Drop > Single Line Symbology
- B. Properties > Edit Type > Single Line Symbology
- C. Electrical Settings > Conduit Settings > Rise Drop > Single Line Symbology
- D. Project Browser > Conduits > Conduits with Fittings > Single Line Symbology

Answer: B

Explanation:
In Autodesk Revit MEP, conduit systems can be represented in plan views using either detailed or single-line symbology. The Single Line Symbology display setting is used for schematic or simplified representations - often in electrical riser or distribution diagrams. The setting that controls whether conduits display in single-line or detailed form is found in the Type Properties of the conduit family, not in Object Styles or Electrical Settings. Specifically, it is accessed by selecting a conduit in the model and navigating to:
Properties Palette → Edit Type → Single Line Symbology
From there, users can define how fittings, rise/drop symbols, and conduits themselves are represented in single-line schematic mode. Adjusting this type parameter affects the graphical display for that conduit type throughout all applicable views where single-line graphics are used.
According to the Autodesk Revit MEP User's Guide (Electrical Systems → Conduit Systems section):
"The conduit type properties define the graphical representation in single-line drawings. By editing the Single Line Symbology in the Type Properties dialog, designers control how the conduit and fittings appear in plan views." This parameter is especially important in electrical documentation where simplified representations are required for coordination and electrical diagrams.

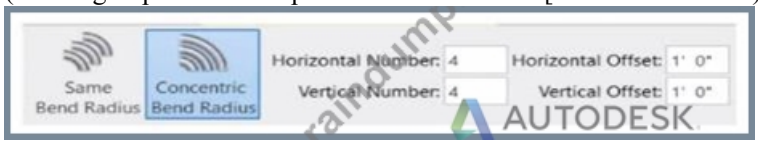
NEW QUESTION # 67
Which Revit command is used to map a Keynote Table file?

- A. Element Keynote
- B. Keynote Manager
- C. Keynote Legend
- D. Keynoting Settings

Answer: D

Explanation:
The correct command in Revit used to map (assign or browse to) a Keynote Table file is Keynoting Settings.
In Revit, keynotes are driven by an external keynote table, typically a tab-delimited TXT file that must be assigned (mapped) in the project so keynote tags can read values correctly. The official Autodesk Revit MEP documentation clearly identifies that the Keynoting Settings dialog is where this mapping is performed.
From the documentation:
To access the Keynoting Settings dialog, the instructions state:
"click Annotate tab ➤ Tag panel drop-down ➤ (Keynoting Settings)."
Regarding keynote table file location mapping:
"Keynote Table - Full Path displays the entire path of the keynote file... Saved Path displays the file name of the keynote file that is loaded." It goes further to explain file path types:
"Absolute identifies a specific folder... Relative finds the keynote file where the project file... is located... At Library Locations finds the keynote file where the stand-alone installation or network deployment specified." The command is explicitly referenced again when fixing a missing mapping:
"Unable to Load Keynote data. Check keynote table locations in Keynoting Settings."
"To specify the location of the keynote text file... click (Keynoting Settings)." Other listed options do not perform keynote file mapping:
Keynote Manager does not exist as a command in native Revit.
Element Keynote is a tagging method.
Keynote Legend only displays already-mapped keynote information.

NEW QUESTION # 68
Refer to exhibit.
(The Image is presented in Imperial units: 1 In = 25 mm [Metric units rounded).)



What is the electrical designer trying to do as shown in the exhibit?

- A. Array Conduit
- B. Place Parallel Conduits
- C. Place Multiple Pipe
- D. Add Cable Tray

Answer: B

Explanation:
The exhibit shown in the image is taken directly from the Revit MEP Electrical Systems workspace, specifically from the Parallel Conduits command interface. This dialog box appears when the designer activates the Place Parallel Conduits tool in the Systems tab → Electrical panel → Conduit dropdown → Parallel Conduits.
In this interface, the designer can specify:
Horizontal Number / Offset - defines how many conduits will be created horizontally and their spacing.
Vertical Number / Offset - defines how many conduits will be created vertically and their spacing.
Bend Radius Options:
Same Bend Radius - all conduits use identical bend radii.
Concentric Bend Radius - conduits bend concentrically around a common center point.
According to Autodesk's Revit MEP 2011 User's Guide (Chapter 18, Electrical Systems - Conduit Layout):
"The Parallel Conduits tool allows you to create multiple conduits side-by-side at the same time.
You can specify the number of conduits horizontally and vertically, as well as the offset between them.

You can also define whether bends have the same bend radius or concentric bend radii."
- Revit MEP User's Guide, Electrical Systems, Section: Conduit Layout
This tool is used when electrical designers need to route groups of conduits that run in parallel-such as power and data conduits running between panels or equipment racks.
The Concentric Bend Radius option (as shown in the exhibit) ensures all conduit bends share a common center, which is critical for maintaining uniformity in conduit sweeps and avoiding clashes during coordination.
Therefore:
A . Add Cable Tray - incorrect; the cable tray tool is separate and does not use bend radius options.
C . Array Conduit - incorrect; arraying is a different geometric function not specific to conduit routing.
D . Place Multiple Pipe - incorrect; applies to mechanical piping systems, not electrical conduits.
The display of Concentric Bend Radius, Horizontal Number, Vertical Number, and Offset confirms that the designer is using the Parallel Conduit placement tool.
Verified Reference Extracts from Revit Electrical Design Documentation:
Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Conduit Layout → "Parallel Conduits Tool" description.
Autodesk Revit MEP Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

NEW QUESTION # 69
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