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NEW QUESTION: 1

In ArcGIS Utility Network, certain feature classes are unique to domain networks and represent how resources flow. Which of the following groups of feature classes are specifically associated only with domain networks?

- A. Devices, Assemblies, and Subnet Lines
- B. Structure lines and junctions
- C. Boundaries and asset packages

Answer: A (LEAVE A REPLY)

Devices, Assemblies, and Subnet Lines are unique to domain networks. Structure networks, by contrast, include supporting classes like junctions and lines.

NEW QUESTION: 2

When creating association roles, what does the restricted deletion semantic enforce?

- A. Prevents deletion of a container if associated network features exist
- B. Deletes all associated features automatically
- C. Allows deletion of a container while leaving features intact

Answer: A (LEAVE A REPLY)

Restricted deletion prevents deleting containers or structures until associated network features are removed.

NEW QUESTION: 3

A technician wants to quickly add a standard arrangement of devices such as arresters, fuses, and transformers with a single placement action. Which type of template should be used?

- A. Preset template
- B. Group template
- C. Containment template

Answer: ([SHOW ANSWER](#))

Preset templates place a fixed pattern of features in one step, ideal for standard device arrangements.

NEW QUESTION: 4

When performing a trace in ArcGIS Utility Network, which property can be configured to act as a barrier, such as an open/closed valve?

- A. Network attributes
- B. Association roles
- C. Tier rank

Answer: A ([LEAVE A REPLY](#))

Network attributes model barriers in tracing (e.g., a valve status attribute defining open or closed).

NEW QUESTION: 5

What is the key difference between a domain network and a structure network in ArcGIS Utility Network?

- A. Domain networks carry resources, while structure networks provide support
- B. Structure networks enforce connectivity, while domain networks enforce containment
- C. Domain networks define ranks, while structure networks manage terminal paths

Answer: A ([LEAVE A REPLY](#))

Domain networks model the flow of resources (e.g., water, electricity), while structure networks provide physical support.

NEW QUESTION: 6

While modeling utility assets, coincident point placement is not always valid. Which of the following scenarios does ArcGIS Utility Network explicitly restrict for coincident points?

- A. Junction class to Junction class
- B. Junction class to Structure class
- C. Device class to Structure class

Answer: A ([LEAVE A REPLY](#))

Coincident points are not allowed between junction-junction, junction-device, or device-device classes.

NEW QUESTION: 7

Which attribute rule type in ArcGIS Utility Network restricts certain edits when a defined condition is met?

- A. Constraint rule
- B. Validation rule
- C. Batch calculation rule

Answer: ([SHOW ANSWER](#))

Constraint rules prevent edits if conditions are not satisfied (e.g., disallowing edits that would break connectivity).

NEW QUESTION: 8

A database utility network owner is configuring a system tier in a water utility network that can supply water to customers through multiple possible flow paths. Which topology type should be used to model this tier?

- A.** Mesh topology
- B.** Radial topology
- C.** Partitioned topology

Answer: ([SHOW ANSWER](#))

Mesh topology allows multiple flow paths and loops, common in water systems.

NEW QUESTION: 9

Before making major schema changes in ArcGIS Pro, which storage option should be used to back up a utility network?

- A.** Asset package
- B.** Service definition file
- C.** Branch versioned replica

Answer: **A** ([LEAVE A REPLY](#))

Asset packages capture the schema, rules, and properties, making them the correct backup option.

NEW QUESTION: 10

A utility modeler needs to represent a power pole that supports other features in the electric network. Which type of structure feature in ArcGIS Utility Network should be used?

- A.** Structure junction
- B.** Structure line
- C.** Structure boundary

Answer: ([SHOW ANSWER](#))

Structure junctions support domain features such as transformers, typically modeled as poles or towers.

NEW QUESTION: 11

Which two requirements must be met before batch calculation attribute rules can be evaluated in a utility network?

- A.** Enterprise geodatabase and branch versioning
- B.** File geodatabase and enabled topology
- C.** Network diagrams and subnetwork controllers

Answer: ([SHOW ANSWER](#))

Batch calculation rules require an enterprise geodatabase and branch versioning.

NEW QUESTION: 12

Which attribute rule type should be used if you want an attribute to be automatically populated after a feature is added or updated in ArcGIS Pro?

- A. Immediate calculation rule
- B. Validation rule
- C. Constraint rule

Answer: A ([LEAVE A REPLY](#))

Immediate calculation rules run instantly after edits to populate attributes automatically.

NEW QUESTION: 13

During creation of a utility network in an enterprise geodatabase, which step applies schema elements such as properties, rules, tables, and feature classes?

- A. Apply asset package
- B. Enable topology
- C. Create subnetwork

Answer: A ([LEAVE A REPLY](#))

The Apply Asset Package tool imports schema and rules into the geodatabase.

NEW QUESTION: 14

A utility company wants to represent a transformer mounted on a power pole in ArcGIS Pro. Which type of association should be configured?

- A. Structural attachment association
- B. Containment association
- C. Connectivity association

Answer: A ([LEAVE A REPLY](#))

Structural attachments model domain features (transformers) attached to structures (power poles).

NEW QUESTION: 15

ArcGIS Utility Network includes several system-provided network attributes used during tracing and analysis.

Which of the following is part of this system-provided set?

- A. Asset group, asset type, terminal ID, tier name
- B. Network category, containment type, association role
- C. Subnetwork name, asset package, diagram rule

Answer: ([SHOW ANSWER](#))

System-provided attributes include asset group, asset type, is subnetwork controller, tier name, terminal ID, source ID, position from/to, and shape length.

NEW QUESTION: 16

An engineer is configuring a two-terminal device, a pressure reducing valve, in a water network. Which inputs are required for this terminal configuration?

- A. Name, direction, terminal definitions (In/Out), default path
- B. Asset group and network category only
- C. Service territory and feature dataset

Answer: A (LEAVE A REPLY)

Two-terminal configurations require name, directionality, terminal details, and default path.

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NEW QUESTION: 17

A utility company needs to represent a pump inside a lift station as part of its water network in ArcGIS Pro.

Which type of association should be used to represent this content-container relationship?

- A. Containment association
- B. Connectivity association
- C. Structural attachment association

Answer: (SHOW ANSWER)

Containment associations model content within containers, such as pumps within a lift station or pipes inside a casing.

NEW QUESTION: 18

ArcGIS Utility Network datasets contain several components that define both the physical and logical aspects of a utility system. Which of the following lists represents the components unique to a utility network dataset (with hierarchical tiers)?

- A. Utility network, structure network, domain network, tier groups, tiers, subnetworks, asset groups, asset types, non-spatial objects
- B. Feature classes, topology rules, domains
- C. Subnetworks, diagrams, and associations

Answer: A (LEAVE A REPLY)

A utility network dataset includes the utility network, structure and domain networks, tier groups, tiers, subnetworks, asset groups, asset types, and non-spatial objects.

NEW QUESTION: 19

In ArcGIS Utility Network, which concept provides a tagging mechanism that allows you to define criteria for stopping a trace, such as a subnetwork controller or protective device?

- A. Network categories
- B. Asset groups
- C. Terminal paths

Answer: A ([LEAVE A REPLY](#))

Network categories tag features (e.g., controllers, valves) and allow traces to stop when encountering them.

NEW QUESTION: 20

In ArcGIS Utility Network, what does the concept of "tier definition" describe?

- A. Organization of tiers relative to the network, either partitioned (sequential) or hierarchical (nested)
- B. A rule for terminal-to-terminal connectivity
- C. Subnetwork diagram arrangement

Answer: ([SHOW ANSWER](#))

Tier definition describes the organization of tiers - either partitioned (sequential) or hierarchical (nested).

NEW QUESTION: 21

Which type of ArcGIS user is required to publish or own a utility network service?

- A. GIS Professional Standard/Advanced, or Creator with Publisher role and Utility Network User Extension
- B. Viewer license
- C. Field Worker license

Answer: A ([LEAVE A REPLY](#))

Publishing requires GIS Professional Standard/Advanced or a Creator + Publisher role with the Utility Network User Extension.

NEW QUESTION: 22

ArcGIS Utility Network includes a diagram function to visually represent network connectivity. Which elements compose a utility network diagram?

- A. Rules, layouts, and layer definitions
- B. Asset groups, terminals, and network categories
- C. Subnetworks, tiers, and ranks

Answer: ([SHOW ANSWER](#))

Diagrams are built from rules (logic), layouts (arrangement), and layer definitions (symbolization).

NEW QUESTION: 23

When creating association roles in ArcGIS Utility Network, what would an unspecified deletion semantic allow if a user attempts to delete a structure feature?

- A. Allows deletion of the structure while keeping associated network features in place
- B. Automatically deletes all associated features along with the structure
- C. Prevents deletion of the structure until all associated features are removed

Answer: A ([LEAVE A REPLY](#))

Unspecified deletion semantic removes associations but leaves network features intact when the container or structure is deleted.

NEW QUESTION: 24

A utility company wants to model the open or closed state of valves in its water network and use this property in tracing operations. Which network property should be used, and how?

- A. Network attributes, by adding a Status attribute for valves
- B. Asset groups, by assigning valve type
- C. Terminals, by setting directional flow

Answer: A ([LEAVE A REPLY](#))

Network attributes (e.g., "Status") allow tracing to respect open/closed valve conditions.

NEW QUESTION: 25

A utility engineer is modeling a power system in ArcGIS Pro and needs to attach a transformer bank to a power pole. Which type of association should be used?

- A. Structural attachment association
- B. Connectivity association
- C. Containment association

Answer: ([SHOW ANSWER](#))

Structural attachment associations attach domain network features (e.g., transformer bank) to structure features (e.g., power pole).

NEW QUESTION: 26

A GIS administrator must decide between different deployment options for ArcGIS Utility Network. Which of the following correctly describes the two supported deployment types?

- A. Single-user in a file geodatabase, and multi-user in an enterprise geodatabase with branch versioning
- B. Cloud deployment vs. on-premise deployment
- C. Partitioned deployment vs. hierarchical deployment

Answer: A ([LEAVE A REPLY](#))

Single-user deployments exist in file geodatabases. Multi-user deployments require enterprise geodatabases with branch versioning.

NEW QUESTION: 27

When setting up a utility network, which of the following describes the main function of terminals in modeling flow?

- A. Act as subnetwork controllers and define valid flow paths through devices
- B. Enforce containment rules for assets
- C. Provide attachment points for domain features to structures

Answer: ([SHOW ANSWER](#))

Terminals model how resources enter/exit devices and act as controllers to define subnetwork origins.

NEW QUESTION: 28

In an enterprise deployment of ArcGIS Utility Network, which architecture is required to allow multiple users to interact with the network through services?

- A. Service-Oriented Architecture (SOA)
- B. Client-Server Architecture
- C. Mesh-based Architecture

Answer: ([SHOW ANSWER](#))

Enterprise deployments require SOA, enabling services and branch versioning for multi-user workflows.

NEW QUESTION: 29

In ArcGIS Utility Network, which topology types can a partitioned network have?

- A. Radial or mesh
- B. Mesh only
- C. Radial only

Answer: ([SHOW ANSWER](#))

Partitioned networks can be modeled using either radial (single-direction flow) or mesh (looped flow).

NEW QUESTION: 30

When validation rules are evaluated in ArcGIS Utility Network, where are data violations stored and tracked?

- A. Error datasets
- B. Network attribute tables
- C. Subnetwork controller tables

Answer: ([SHOW ANSWER](#))

Violations are logged in error datasets, which allow users to identify and fix invalid data.

NEW QUESTION: 31

A utility company has an electric network modeled with a transmission tier and a distribution tier. Each tier is independent, sequential, and linear. What type of tier definition is being used?

- A. Partitioned tier definition
- B. Hierarchical tier definition
- C. Radial tier definition

Answer: A (LEAVE A REPLY)

Partitioned tiers represent sequential systems where each tier is independent, such as transmission vs. distribution.

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NEW QUESTION: 32

Before batch calculation or validation rules can be evaluated in a utility network, which two steps must be completed?

- A. Add error datasets to the map and publish/overwrite the utility network service with Validation enabled
- B. Enable topology and assign containment rules
- C. Create asset packages and update tiers

Answer: A (LEAVE A REPLY)

Validation requires error datasets to be added and the utility network service to be published with Validation capability enabled.

NEW QUESTION: 33

Which topology tier type in ArcGIS Utility Network supports looping connectivity between network features?

- A. Mesh
- B. Radial
- C. Partitioned

Answer: A (LEAVE A REPLY)

Mesh topology allows loops and multiple flow paths, supporting redundancy.

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