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The Open Group ArchiMate 3 Part 1 Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Complete the sentence. The passive counterpart of the application component in the application layer is called a(n) ____.

- A. Data object
- B. Application event
- C. Product
- D. Meaning

Answer: A

Explanation:

Comprehensive and Detailed in Depth Explanation: An Application Component is an active structure that represents software components performing behavior. Its passive counterpart is the Data Object, which represents structured information used or produced by applications.

Since Data Objects do not perform actions themselves but store, structure, or represent data, they are the correct counterpart to Application Components in the Application Layer.

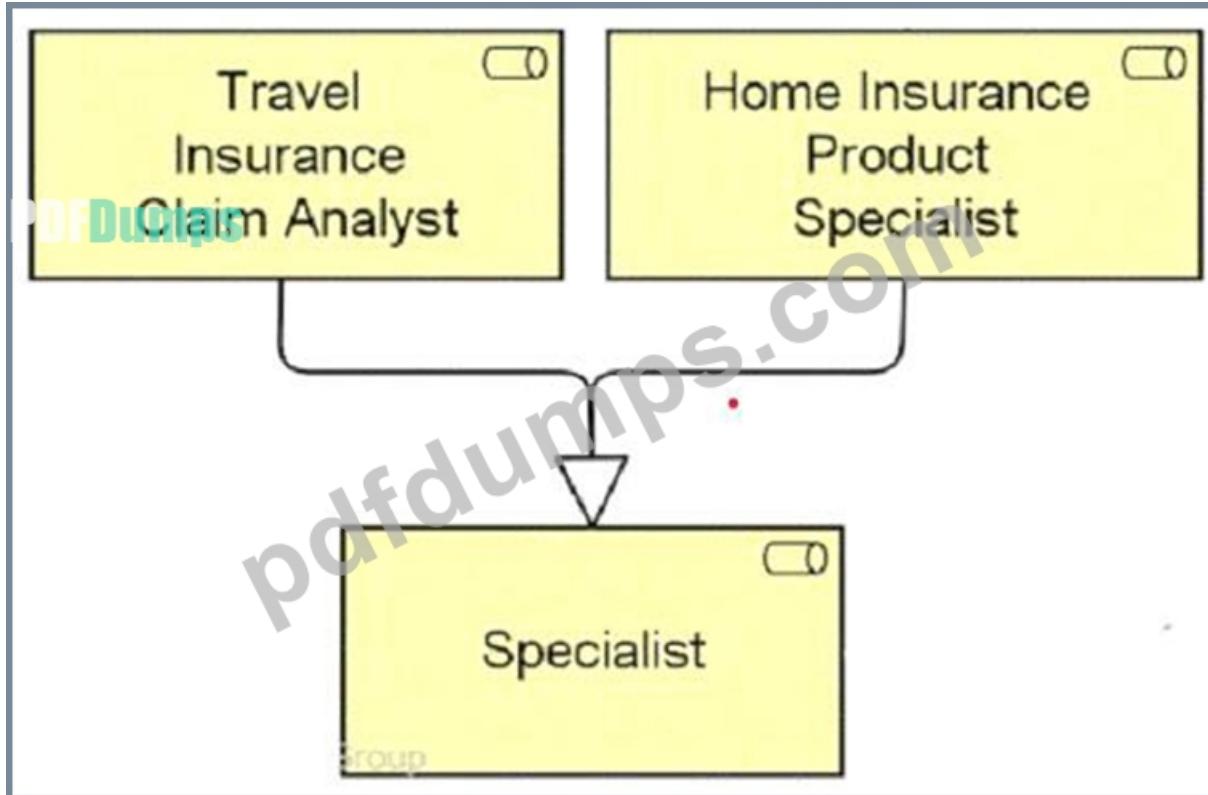
This is clearly outlined in the ArchiMate 3.2 Specification, which states that Application Components act upon Data Objects.

References:

- * Archi User Guide
- * ArchiMate 3.2 Specification

NEW QUESTION # 71

Consider the following diagram:



Which of the following correctly describes this diagram?

- A. The two business roles Travel Insurance Claim Analyst and Home Insurance Product Specialist are specializations of the business role Specialist
- B. The two business roles Travel Insurance Claim Analyst and Home Insurance Product Specialist together realize the business role Specialist.
- C. The business role Specialist is an aggregation of the two business roles Travel Insurance Claim Analyst and Home Insurance Product Specialist.
- D. The business role Specialist approves all claims handled by the two business roles Travel Insurance Claim Analyst and Home Insurance Product Specialist

Answer: A

Explanation:

Based on the ArchiMate 3 documents or objectives, the diagram uses a specialization relationship to indicate that the two business roles Travel Insurance Claim Analyst and Home Insurance Product Specialist are more specific versions of the business role Specialist. A specialization relationship is a type of structural relationship that indicates that an object is a specialization of another object. The notation for a specialization relationship is a solid line with an empty triangle at the end that points to the more general element.

References: ArchiMate 3.2 Specification, Chapter 4 Generic Metamodel, Section 4.1 Behavior and Structure Elements, Subsection 4.1.2 Structural Relationships 1; ArchiMate Specialization Relationship - ArchiMate Quick Guide - GitBook 2.

NEW QUESTION # 72

Complete following sentence: In the generic metamodel the main types of elements can be divided into

- A. structure and behavior
- B. process and function
- C. grouping and location
- D. resources and events

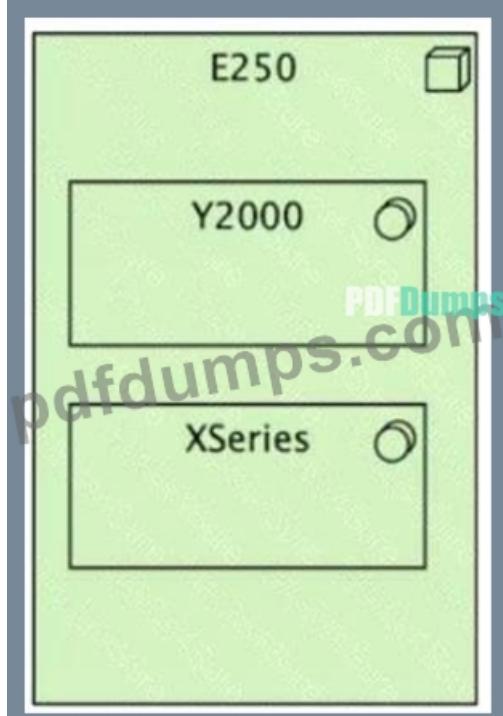
Answer: A

Explanation:

Based on the ArchiMate 3 documents or objectives, the generic metamodel defines two main types of elements: structure and behavior. Structure elements represent the structural concepts that model the static construction or composition of concepts of the same or different types. Behavior elements represent units of activity performed by one or more active structure elements. References: ArchiMate 3.2 Specification, Chapter 4 Generic Metamodel, Section 4.1 Behavior and Structure Elements 1; ArchiMate 3.0.1 Specification - The Open Group 2.

NEW QUESTION # 73

Consider the diagram showing a standard server configuration at ArchiSurance:



(A diagram depicting E250 as a node, containing Y2000 and XSeries as internal components.) Which of the following correctly describes the diagram?

- A. The E250 node is running internally-developed Y2000 software for enterprise risk analysis and is fitted with an XSeries custom disk array.
- B. The E250 is an assembly of Y2000 processing units and XSeries high-speed memory.
- C. The E250 device is fitted with the Y2000 software application and the XSeries communication middleware.
- D. The E250 node is running Y2000 middleware and the XSeries operating system

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

This ArchiMate Technology Layer diagram represents a server configuration, where:

* E250 is modeled as a Technology Node (a physical or virtual server).

* Y2000 and XSeries are contained within E250, indicating that they are software components running on this node.

* The relationship suggests that Y2000 is middleware and XSeries is an operating system.

In ArchiMate 3.2, a Technology Node represents a computing platform that hosts software elements like applications, middleware, and operating systems.

Analysis of Answer Choices:

#A. The E250 is an assembly of Y2000 processing units and XSeries high-speed memory.##Incorrect

* E250 is a Technology Node (server), not just hardware components.

* Y2000 and XSeries are software components, not processing units or memory modules.

#B. The E250 node is running internally-developed Y2000 software for enterprise risk analysis and is fitted with an XSeries custom disk array.##Incorrect

* There is no indication that XSeries is a disk array; rather, it appears to be software.

* The diagram shows Y2000 and XSeries as software components inside E250, not as hardware attachments.

#C. The E250 device is fitted with the Y2000 software application and the XSeries communication middleware.##Incorrect

* Middleware typically supports application integration, while operating systems manage hardware resources.

- * The diagram suggests that XSeries functions as an OS, not middleware.
- #D. The E250 node is running Y2000 middleware and the XSeries operating system##Correct Answer
- * This matches typical server configurations where a middleware application runs on top of an operating system
- * Y2000 (middleware) handles enterprise risk analysis functions, while XSeries (operating system) manages the E250 server.
- * ArchiMate 3.2 Specification, Section 6.6.5, defines Middleware as software that facilitates integration between applications and the underlying OS.

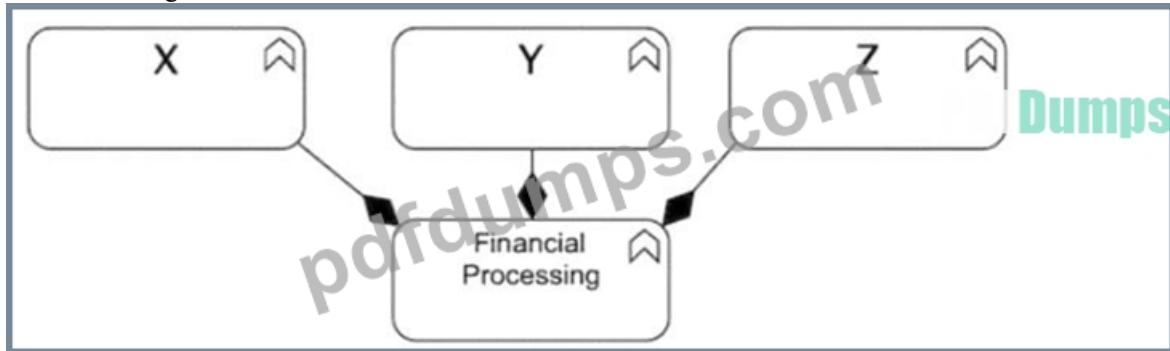
#D. The E250 node is running Y2000 middleware and the XSeries operating system

References:

- * ArchiMate 3.2 Specification: Sections 6.6.1 (Technology Nodes), 6.6.5 (Middleware), and 6.6.6 (Operating Systems).
- * Archi User Guide: Modeling technology infrastructure and server configurations.

NEW QUESTION # 74

Consider the diagram:



(A diagram showing X, Y, and Z connected to Financial Processing using black diamonds.) Which of the following is the correct description of the diagram?

- A. The financial processing function aggregates the three sub-functions X, Y, and Z.
- B. The financial processing function is assigned the three sub-functions X, Y, and Z.
- C. The financial processing function is influenced by the three sub-functions X, Y, and Z.
- D. The financial processing function is composed of three sub-functions X, Y, and Z.

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The black diamond notation in ArchiMate represents a Composition relationship, which is used to indicate whole-part relationships between elements.

- * Financial Processing is the whole (parent element).
- * X, Y, and Z are sub-functions, meaning they are part of Financial Processing.
- * Composition is a strong relationship, meaning the sub-functions (X, Y, and Z) do not exist independently outside Financial Processing.

Analysis of Answer Choices:

- #A. The financial processing function is composed of three sub-functions X, Y, and Z##Correct Answer
- * Composition relationships in ArchiMate indicate that one element is part of another in a strict, whole-part hierarchy.
- * ArchiMate 3.2 Specification, Section 6.4.2, defines Composition as a structural relationship where the child elements belong strictly to the parent.
- * Since Financial Processing contains X, Y, and Z as integral sub-functions, this is the correct choice.
- #B. The financial processing function aggregates the three sub-functions X, Y, and Z##Incorrect
- * Aggregation is a weaker relationship in ArchiMate compared to Composition.
- * In Aggregation, the sub-functions can exist independently, whereas in Composition, they cannot.
- * ArchiMate 3.2 Specification, Section 6.4.1, states that Aggregation does not enforce a strict whole-part relationship like Composition does.
- #C. The financial processing function is influenced by the three sub-functions X, Y, and Z##Incorrect
- * Influence relationships in ArchiMate do not represent whole-part structures.
- * Influence is a motivation relationship, meaning it represents an impact or effect, not a structural dependency.
- #D. The financial processing function is assigned the three sub-functions X, Y, and Z##Incorrect
- * Assignment relationships are used to indicate that a behavior element (e.g., function, process) is performed by an active structure element (e.g., role, actor, component).
- * This diagram does not depict an assignment relationship; instead, it shows a structural composition.

#A. The financial processing function is composed of three sub-functions X, Y, and Z.

References:

* ArchiMate 3.2 Specification: Sections 6.4.2 (Composition), 6.4.1 (Aggregation), and 6.5 (Influence & Assignment).

* Archi User Guide: Modeling business functions and composition relationships.

NEW QUESTION # 75

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