

# Practice Exam Questions

THE *Open* GROUP



## ArchiMate 3 Part 1



**EXAMKILLER**

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# **The Open Group**

**Exam OGA-031**

**ArchiMate 3 Part 1 Examination**

**Version: 4.0**

**[ Total Questions: 40 ]**

**Question No : 1**

Complete the sentence. In the Technology Layer metamodel, a communication network  
a path\_

- A. realizes
- B. serves
- C. aggregates
- D. accesses

**Answer: A**

**Explanation:** According to the Technology Layer metamodel, a communication network is a physical communication medium between two or more devices or other networks. A communication network realizes a path, which is a relation between two or more nodes through which they can exchange information.

References: Technology Layer in ArchiMate Part 1 - Metamodel<sup>1</sup>; ArchiMate® 3.2 Specification, Chapter 10: Technology Layer<sup>2</sup>.

**Question No : 2**

What physical element is used to model buildings that have an important role in production processes?

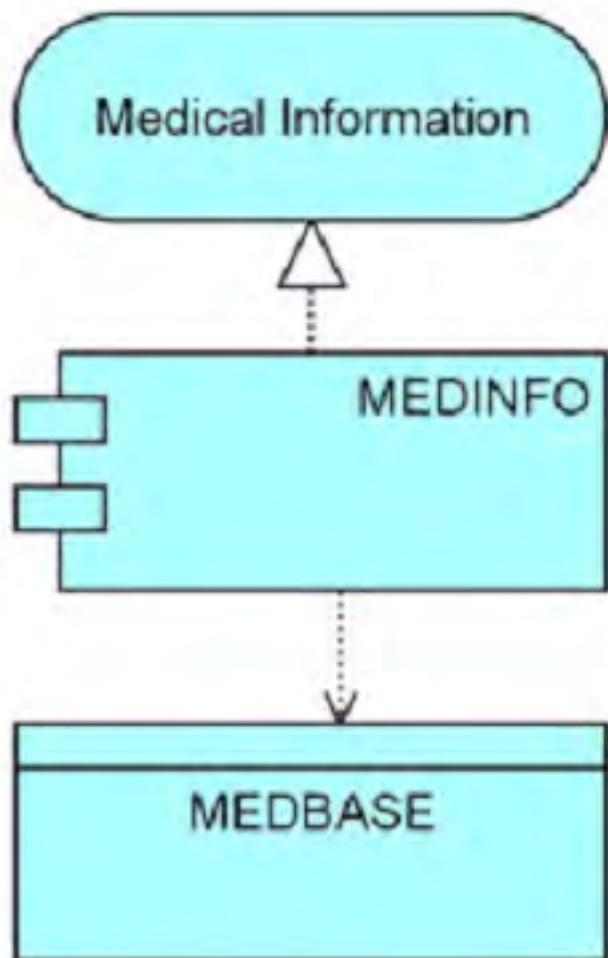
- A. Facility
- B. Manufacturing Plant
- C. Distribution node
- D. Equipment

**Answer: A**

**Explanation:** According to the ArchiMate® 3.2 Specification<sup>1</sup>, a facility is a physical element that is used to model buildings that have an important role in production processes. A facility represents a physical structure or environment<sup>1</sup>. Therefore, the correct answer is A. Facility.

**Question No : 3**

Consider the following diagram showing a system used for settling injury claims:



Which answer correctly describes this diagram?

- A.** The MEDINFO application realizes the Medical Information service, and accesses a data object called MEDBASE-
- B.** The MEDINFO application serves the Medical Information department, and accesses a data object called MEDBASE\_
- C.** The Medical Information application uses a back-end module called MEDINFO to access a data object called MEDBASE.
- D.** The MED8ASE application uses MEDINFO middleware to present the Medical Information user interface.

**Answer: A**

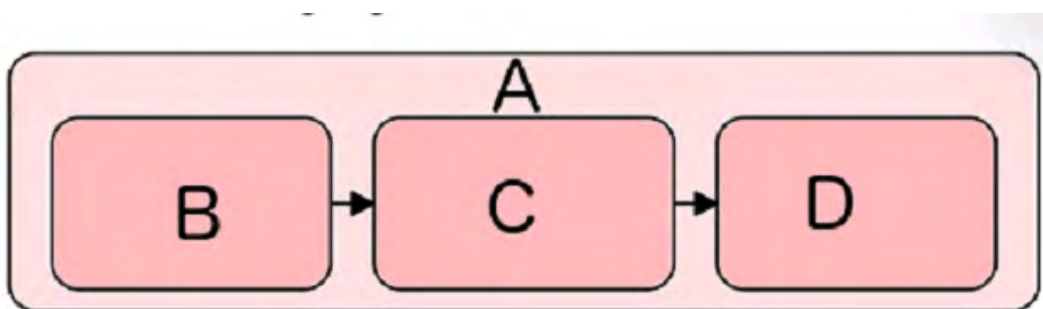
**Explanation:** Based on the ArchiMate 3 documents or objectives, an application component represents a modular, deployable, and replaceable part of a software system

that encapsulates its behavior and data. An application service represents an explicitly defined exposed application behavior. A data object represents data structured for automated processing. A realization relationship indicates that an entity plays a critical role in the creation, achievement, sustenance, or operation of a more abstract entity. An access relationship models the ability of behavior and active structure elements to observe or act upon passive structure elements. The diagram uses a realization relationship from the MEDINFO application component to the Medical Information service to indicate that the application component realizes the service. The diagram also uses an access relationship from the MEDINFO application component to the MEDBASE data object to indicate that the application component accesses the data object.

References: ArchiMate® 3.2 Specification, Chapter 10 Application Layer, Section 10.1 Active Structure Elements 1; ArchiMate® 3.2 Specification, Chapter 10 Application Layer, Section 10.3 Behavior Elements 1; ArchiMate® 3.2 Specification, Chapter 5 Relationships, Section 5.1 Structural Relationships 1; ArchiMate® 3.2 Specification, Chapter 5 Relationships, Section 5.3 Access Relationships 1; ArchiMate Example: Application Components - Visual Paradigm 2.

**Question No : 4**

Which answer correctly describes the four elements (A, B, C, and D) shown in this diagram?



- A. A plateau and deliverables
- B. Project components
- C. Work packages
- D. Business processes

**Answer: C**

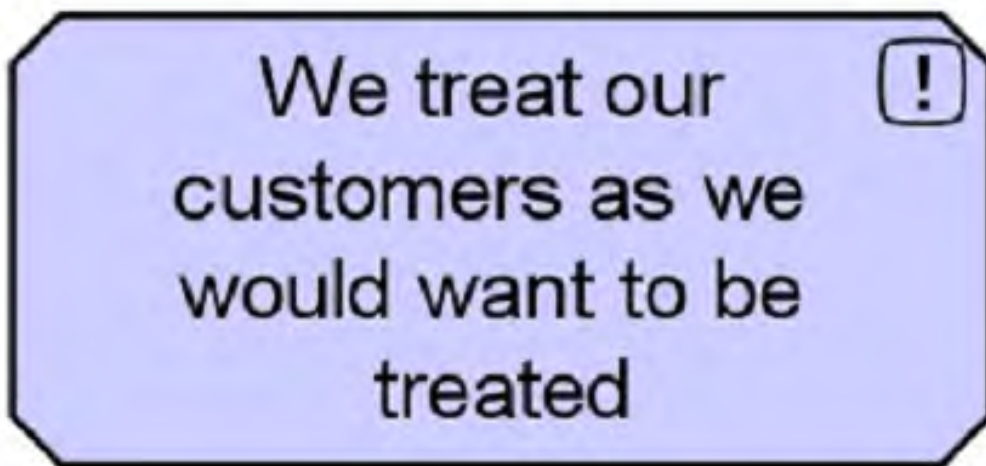
**Explanation:** The diagram shows a work package, which is a grouping of behavior and/or

structure elements that can be assigned to one or more performers. A work package can be used to model a project or a program, and it can contain deliverables, which are outcomes of the work package. The four elements (A, B, C, and D) are all deliverables that are part of the work package.

References: ArchiMate® 3.2 Specification, Chapter 10: Motivation Elements, Section 10.4 Work Package<sup>1</sup>; Chapter 11: Strategy Elements, Section 11.5 Deliverable<sup>2</sup>.

**Question No : 5**

Consider the following symbol, which represents information about a transformation project.



What concept does this symbol represent?

- A. A principle
- B. A constraint
- C. A goal
- D. A requirement

**Answer: A**

**Explanation:** According to the ArchiMate® 3.2 Specification<sup>1</sup>, a principle defines a general property that applies to any system in a certain context. A principle is a normative property of all systems in a given context that expresses a fundamental value or property<sup>1</sup>.

Therefore, the correct answer is A. A principle.

**Question No : 6**

What are external active structure elements also called?

- A. Services
- B. Interfaces
- C. Resources
- D. Capabilities

**Answer: B**

**Explanation:** According to the ArchiMate® 3.2 Specification<sup>1</sup>, external active structure elements are also called interfaces. An interface represents a point of access where one or more services are offered by an active structure element to its environment<sup>1</sup>. Therefore, the correct answer is B. Interfaces.

**Question No : 7**

What are the types of elements defined in the top-level language structure of the ArchiMate concepts?

- A. Application, Business, Strategy, Technology
- B. Active, Behavior, Passive
- C. Behavior, Composite, Motivation, Structure
- D. Abstract, Core, Composite

**Answer: C**

**Explanation:** Based on the ArchiMate 3 documents or objectives, the top-level language

structure of the ArchiMate concepts defines four types of elements: Behavior, Composite, Motivation, and Structure. Behavior elements represent units of activity performed by one or more active structure elements. Composite elements represent collections of other concepts that belong together based on some criteria. Motivation elements represent the reasons for designing and implementing an architecture. Structure elements represent structural concepts that model the static construction or composition of concepts of the same or different types.

References: ArchiMate® 3.2 Specification, Chapter 3 Language Structure, Section 3.2 Top-Level Language Structure **1**; ArchiMate - Wikipedia **2**.

**Question No : 8**

Consider the following symbol, which represents information about a transformation project at ArchiSurance\_



Which statement correctly expresses the meaning of this symbol?

- A.** The concern is that customers are defecting to competitors with superior digital experiences
- B.** The driver is that customers are defecting to competitors with superior digital



experiences

**C.** The outcome is that customers are defecting to competitors with superior digital experiences.

**D.** The assessment is that customers are defecting to competitors with superior digital experiences

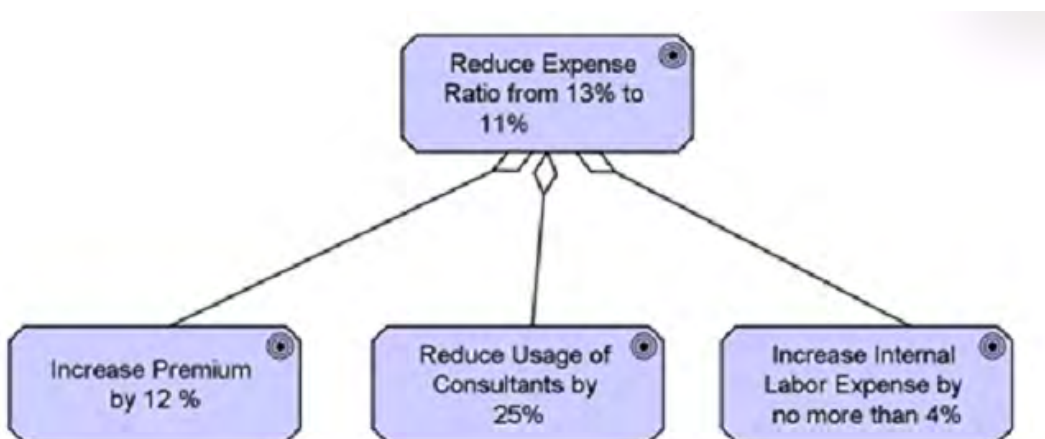
**Answer: D**

**Explanation:** Based on the ArchiMate 3 documents or objectives, an assessment represents the result of an analysis of the state of affairs of the enterprise with respect to some driver. An assessment may reveal strengths, weaknesses, opportunities, or threats for some area of interest. An assessment is a motivation element that can be associated with other motivation elements such as stakeholders, drivers, goals, outcomes, etc. The notation for an assessment is a rectangle with a rounded top and a horizontal line inside it. The symbol in this question is an assessment that expresses the analysis of ArchiSurance's situation.

References: ArchiMate® 3.2 Specification, Chapter 7 Strategy Elements, Section 7.2 Motivation Elements **1**; Assessment ArchiMate | QualiWare Center of Excellence **2**.

### Question No : 9

What is the best description of the diagram?



**A.** The goal 'Reduce Expense Ratio from 13% to 11%' must be achieved before any of the other three goals is achieved-

- B.** The goal 'Reduce Expense Ratio from 13% to 11%' will be achieved if at least one of the other three goals is achieved
- C.** The goal 'Reduce Expense Ratio from 13% to 11%' is similar to the three other goals.
- D.** The goal 'Reduce Expense Ratio from 13% to 11%' is decomposed into three other goals.

**Answer: D**

**Explanation:** The diagram uses the ArchiMate notation for a goal element and an aggregation relationship. A goal element represents an end state that a stakeholder intends to achieve. An aggregation relationship indicates that a whole is composed of parts. In this case, the goal 'Reduce Expense Ratio from 13% to 11%' is composed of three sub-goals that contribute to its achievement.

References: ArchiMate® 3.2 Specification, Chapter 10: Motivation Elements, Section 10.1 Goal; Chapter 5: Relationships, Section 5.2 Aggregation.

#### Question No : 10

What relationship is allowed from a technology function to an application function?

- A.** Assignment
- B.** Aggregation
- C.** Influence
- D.** Realization

**Answer: A**

**Explanation:** According to the ArchiMate® 3.2 Specification<sup>1</sup>, an application function describes the internal behavior of an application component, and an application component may be assigned to an application function, which means that the application component performs the application function. Therefore, the correct answer is A. Assignment. This relationship indicates that an instance of a technology function performs (part of) the behavior of an instance of an application function<sup>1</sup>.

#### Question No : 11

Consider the following diagram: