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The Open Group TOGAF Enterprise Architecture Part 2 Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

Please read this scenario prior to answering the question

You are working as an Enterprise Architect within a healthcare and life science company. The company is a leading player in its industry, dedicated to transforming healthcare with new ideas and advancements. The company has multiple divisions that cover different aspects of the business.

The company's Enterprise Architecture (EA) department has been operating for several years and has mature, well-developed architecture governance and development processes following the TOGAF Standard. In addition to the EA program, the company has a number of management frameworks in use.

The Architecture Board includes representatives from each division of the company.

Many of the company's rivals have begun utilizing Artificial Intelligence (AI) in their operations, and the indications are that this will be transformative for healthcare delivery. This is something the EA department has been interested in for a while, and they had recently submitted an architecture Change Request which was approved. As a result, the CIO has approved a Request for Architecture Work to investigate the implementation of AI in the company.

Areas for evaluation include:

How can staff use AI daily in their current role?

How AI can enhance access to care for patients, and how to make that experience seamless?

How AI can offer new workplace platforms and tools to increase efficiency?

Some of the top managers are worried about a change in the way of working, and if it will achieve the goals.

Many are not confident that the company's risk management processes are adequate for a company-wide integration of generative AI. There are also questions from staff about whether enough specific guidelines and policies have been put in place for responsible use of AI.

The Chief Information Officer (CIO) is the sponsor of the Enterprise Architecture program. The CIO has actively encouraged architecting with agility within the EA department as her preferred approach for projects.

The CIO wants to know how to address these concerns and reduce risks.

Refer to the scenario

You have been tasked with starting the architecture development. How do you begin?

Based on the TOGAF standard which of the following is the best answer?

- A. You recommend creation of a set of business models that can be applied uniformly across all AI-related architecture projects. These should be developed in the portable format to ensure maximum portability across the many tools used in the firm. Each architecture should then be defined based on this fixed set of models. All concerned parties can then examine the models to ensure that their needs have been addressed.
- B. You recommend that a Communications Plan be created to address the key stakeholders, that is the most powerful and influential partners. This plan should include a report that summarizes the key features of the architecture with respect to each location and reflects the stakeholders' requirements.
You will check with each key stakeholder that their concerns are being addressed. Risk mitigation should be explicitly addressed as a component of the architecture being developed.
- C. You recommend that models be created for the Draft Business, Data, Application, and Technology Architectures. These can be used to ensure that the system will be compliant with the local regulations for each division. Together with the problem description, and requirements, this ensures that all the necessary data and detail is addressed. A formal review should be held with the stakeholders to verify that their concerns have been properly addressed by the models.
- D. You recommend that an analysis of the stakeholders is undertaken. This will allow the architects to define groups of partners (the stakeholders) who have common concerns and include development of a Stakeholder Map. The concerns and relevant views should then be defined for each group and recorded in the Architecture Vision document. To mitigate risk, you include a requirement that there be progressive development of the target architecture to ensure there is regular feedback.

Answer: D

Explanation:

Key aspects of the scenario:

Objective:

Integrating Artificial Intelligence (AI) into healthcare delivery, with a focus on improving patient care, enhancing workplace efficiency, and enabling seamless experiences.

Challenges:

Stakeholder concerns about risk management, adaptability to change, and ensuring alignment with regulations and policies.

Addressing the concerns of staff and top management about AI integration and achieving the desired goals.

CIO's Perspective:

Encouraging an agile approach to architecture development.

Addressing risks and ensuring stakeholder concerns are managed.

Areas for Evaluation:

AI usage by staff and impact on workflows.

Patient experience enhancement via AI.

New workplace platforms and tools powered by AI.

Option Analysis:

Option 1: Analysis of stakeholders and development of a Stakeholder Map

Pros: Stakeholder analysis is critical for identifying concerns, viewpoints, and requirements.

TOGAF emphasizes stakeholder engagement early in the process to mitigate risks and align expectations.

Developing a Stakeholder Map ensures clear alignment with their interests and creates a foundation for regular feedback loops.

Cons:

Does not explicitly address the creation of architecture models or policies upfront.

Option 2: Creation of a Communications Plan

Pros:

A communications plan fosters effective stakeholder engagement by addressing their concerns and ensuring transparent reporting.

Risk mitigation as part of communication aligns with TOGAF's stakeholder management practices.

Cons:

This focuses more on communication mechanics rather than advancing architectural development directly.

Option 3: Models for Draft Business, Data, Application, and Technology Architectures Pros:

Aligns with the Architecture Development Method (ADM), ensuring compliance with requirements and regulations.

Helps formalize stakeholder feedback by verifying their concerns against tangible models.

Cons:

Developing detailed models early on may delay immediate resolution of stakeholder concerns and risk mitigation.

Option 4: Set of reusable business models for AI-related projects

Pros:

Standardized models ensure consistency and portability across the organization's AI-related efforts.

Cons:

Too narrow in focus for the initial architecture development phase; does not address risk management or stakeholder concerns adequately.

Recommended answer:

Option 1: You recommend that an analysis of the stakeholders is undertaken.

Reasoning:

The scenario highlights stakeholder concerns about risks, adaptability, and compliance. Addressing these concerns requires stakeholder analysis as the first step.

A Stakeholder Map aligns with TOGAF's emphasis on stakeholder engagement, providing a structured way to manage their concerns and expectations.

Identifying concerns early and integrating feedback into the Architecture Vision document ensures alignment with goals and smooth progress.

Option 1 sets the foundation for collaboration and risk management, making it the best fit for the current phase.

NEW QUESTION # 28

Please read this scenario prior to answering the question

You are working as an Enterprise Architect at a large supermarket. The company runs many retail stores, as well as an online grocery shop. Many of the stores used to remain open 24/7, but the number has decreased in recent years. Instead, they now focus on fulfilling online orders during the night.

The company has a mature Enterprise Architecture (EA) practice and uses the TOGAF standard for its architecture development method. The EA practice is involved in all aspects of the business, with oversight provided by an Architecture Board with representatives from different parts of the business. The EA program is sponsored by the Chief Information Officer (CIO).

Each store uses a standard method to track sales and inventory. This involves sending accurate timely sales data to a central AI-based inventory management system that can predict demand, adjust stock levels and automate reordering. The central inventory management system is housed at the company's central data center.

The company has bought a major rival. The Chief Executive Officer believes that a merger will enable growth through combined offerings and cost savings. The decision has been taken to fully integrate the two organizations, including merging retail operations and systems. This means that duplicated systems will be replaced with one standard retail management system. Also, the company will reduce the number of applications that are used. The CIO expects significant savings will be achieved by implementing these changes across the newly merged company.

One improvement that the rival has successfully implemented is the use of hand-held devices within stores, for both customers and staff. This has increased both customer and staff employee satisfaction due to the time savings this has brought. The CIO has given the go-ahead to roll out the devices in all stores but has stated that training on how to use the hand-held devices should be brief because there are a lot of employees, many of whom are part-time.

The Request for Architecture Work to oversee the merger has been approved. The project has been scoped and you have been assigned to work on it. Your role includes managing the architecture for the retail stores.

Refer to the scenario

You have been asked to confirm the most relevant architecture principles for the transformation.

Based on the TOGAF Standard, which of the following is the best answer?

[Note: The sequence of the principles listed in each answer does not matter. You should assume the company follows the set of principles that are provided in the TOGAF Standard, ADM Techniques, Architecture Principles chapter. You may need to refer to section 2.6 located in ADM Techniques within the reference text to answer this question.]

- A. Maximize Benefit to the Enterprise, Common Use Applications, Data is an Asset, Responsive Change Management, Technology Independence
- B. Control Technical Diversity, Interoperability, Data is an Asset, Data is Shared, Business Continuity
- C. Common Use Applications, Data is an Asset, Data is Accessible, Ease of Use, Business Continuity
- D. Common Vocabulary and Data Definitions, Compliance with the Law, Requirements Based Change, Responsive Change Management, Data Security

Answer: A

Explanation:

Key aspects of the scenario:

Business Objective:

A merger is happening to combine offerings, reduce costs, and achieve operational efficiency.

The goal includes fully integrating retail operations and systems, replacing duplicated systems, and reducing the number of applications used.

Technological Improvements:

A central AI-based inventory system is in place.

Hand-held devices for stores have improved customer and staff satisfaction and increased efficiency.

Scope of Architecture Work:

Integrating the merged systems.

Managing retail architecture to optimize operations.

TOGAF Alignment:

TOGAF principles aim to ensure the architecture supports business transformation effectively while aligning with governance and best practices.

Best answer analysis:

Option 1:

Maximize Benefit to the Enterprise: Aligns with the merger goals of cost reduction and efficiency.

Common Use Applications: Matches the goal to reduce duplicated systems.

Data is an Asset: Central AI system depends on accurate and reliable data.

Responsive Change Management: Necessary to support the transition and manage organizational impacts.

Technology Independence: Encourages selecting flexible, scalable solutions post-merger.

This option comprehensively aligns with the scenario.

Option 2:

Control Technical Diversity: Important but less emphasized than cost reduction and application unification.

Interoperability: Relevant, but less critical compared to principles addressing business value.

Data is an Asset: Relevant.

Data is Shared: Implied in centralized inventory but not directly stated.

Business Continuity: Important but not the main focus here.

This option partially fits but lacks emphasis on business outcomes.

Option 3:

Common Vocabulary and Data Definitions: Indirectly helpful but not central to the transformation.

Compliance with the Law: Always critical, but no explicit legal issues are mentioned.

Requirements-Based Change: General principle but not transformation-specific.

Responsive Change Management: Relevant.

Data Security: Important but not a central concern in the scenario.

This option focuses more on governance and less on merger goals.

Option 4:

Common Use Applications: Relevant to reducing duplicate systems.

Data is an Asset: Relevant.

Data is Accessible: Fits with AI system and handheld devices but is a subset of "Data is an Asset." Ease of Use: Relevant to handheld devices but not a core transformation principle.

Business Continuity: Important but secondary to cost and efficiency.

This option focuses more on usability and accessibility rather than transformation objectives.

NEW QUESTION # 29

Please read this scenario prior to answering the question

You have been appointed as senior architect working for an autonomous driving technology development company. The mission of the company is to build an industry leading unified technology and software platform to support connected cars and autonomous driving.

The company uses the TOGAF Standard as the basis for its Enterprise Architecture (EA) framework. Architecture development within the company follows the purpose-based EA Capability model as described in the TOGAF Series Guide: A Practitioners' Approach to Developing Enterprise Architecture Following the TOGAF® ADM.

An architecture to support strategy has been completed defining a long-range Target Architecture with a roadmap spanning five years. This has identified the need for a portfolio of projects over the next two years. The portfolio includes development of travel assistance systems using swarm data from vehicles on the road.

The current phase of architecture development is focused on the Business Architecture which needs to support the core travel

assistance services that the company plans to provide. The core services will manage and process the swarm data generated by vehicles, paving the way for autonomous driving in the future.

The presentation and access to different variations of data that the company plans to offer through its platform poses an architecture challenge. The application portfolio needs to interact securely with various third-party cloud services, and V2X (Vehicle-to-Everything) service providers in many countries to be able to manage the data at scale. The security of V2X is a key concern for the stakeholders. Regulators have stated that the user's privacy be always protected, for example, so that the drivers' journey cannot be tracked or reconstructed by compiling data sent or received by the car.

Refer to the scenario

You have been asked to describe the risk and security considerations you would include in the current phase of the architecture development?

Based on the TOGAF standard which of the following is the best answer?

- A. You will perform a qualitative risk assessment for the data assets exchanged with partners. This will deliver a set of priorities, high to medium to low, based on identified threats, the likelihood of occurrence, and the impact if it did occur. Using the priorities, you would then develop a Business Risk Model which will detail the risk strategy including classifications to determine what mitigation is enough.
- B. You will create a security domain model so that assets with the same level can be managed under one security policy. Since data is being shared across partners, you will establish a security federation to include them. This would include contractual arrangements, and a definition of the responsibility areas for the data exchanged, as well as security implications. You would undertake a risk assessment determining risks relevant to specific data assets.
- C. You will focus on the relationship with the third parties required for the travel assistance systems and define a trust framework. This will describe the relationship with each party. Digital certificates are a key part of the framework and will be used to create trust between parties. You will monitor legal and regulatory changes across all the countries to keep the trust framework in compliance.
- D. You will focus on data quality as it is a key factor in risk management. You will identify the datasets that need to be safeguarded. For each dataset, you will assign ownership and responsibility for the quality of data needs. A security classification will be defined and applied to each dataset. The dataset owner will then be able to authorize processes that are trusted for a certain activity on the dataset under certain circumstances.

Answer: B

Explanation:

A security domain model is a technique that can be used to define the security requirements and policies for the architecture. A security domain is a grouping of assets that share a common level of security and trust. A security policy is a set of rules and procedures that govern the access and protection of the assets within a security domain. A security domain model can help to identify the security domains, the assets within each domain, the security policies for each domain, and the relationships and dependencies between the domains¹. Since the data is being shared across partners, a security federation is needed to establish a trust relationship and a common security framework among the different parties. A security federation is a collection of security domains that have agreed to interoperate under a set of shared security policies and standards. A security federation can enable secure data exchange and collaboration across organizational boundaries, while preserving the autonomy and privacy of each party. A security federation requires contractual arrangements, and a definition of the responsibility areas for the data exchanged, as well as security implications². A risk assessment is a process that identifies, analyzes, and evaluates the risks that may affect the architecture. A risk assessment can help to determine the likelihood and impact of the threats and vulnerabilities that may compromise the security and privacy of the data assets. A risk assessment can also help to prioritize and mitigate the risks, and to monitor and review the risk situation³. Therefore, the best answer is D, because it describes the risk and security considerations that would be included in the current phase of the architecture development, which is focused on the Business Architecture. The answer covers the security domain model, the security federation, and the risk assessment techniques that are relevant to the scenario.

References: 1: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 35: Security Architecture and the ADM 2: The TOGAF Standard, Version 9.2, Part IV: Architecture Content Framework, Chapter 38: Security Architecture 3: The TOGAF Standard, Version 9.2, Part III: ADM Guidelines and Techniques, Chapter 32: Risk Management

NEW QUESTION # 30

Please read this scenario prior to answering the question

You are employed as an Enterprise Architect at a company. The company manages large-scale farming operations with food production, processing, and distribution. The goal of the company is to maximize profit while satisfying the needs of consumers for its products. Its customers demand food that is produced sustainably, safely, and transparently, while reducing environmental impact. The business is highly mechanized, and this mechanization has brought about a decrease in the number of workers needed, together with a focus on agricultural engineering to improve the efficiency of its farms, its processing facilities, and the overall enterprise. As part of this, the company has established an Enterprise Architecture (EA) practice based on the TOGAF standard, using it as the method and guiding framework. The Chief Information Officer (CIO) is the sponsor of EA practice.

The practice has adopted an iterative approach for its architecture development. This has enabled the decision makers to have valuable insights into the different aspects of the business.

In recent years there have been a series of bad harvests, and a major reduction in yields of the main crop produced by the company. This combined with an increase in costs for energy, feed, fuel, and fertilizer, had led to a significant decrease in profits.

The rising costs and lower profits mean that the company is unable to take as much planned action on climate measures as it would like, such as reducing its carbon footprint. The Chief Executive Officer (CEO) has stated that big changes are needed to improve yields and profitability.

The outline strategy for change, includes new products, and new markets. The company will switch to a mix of crops rather than depend on a main crop and will allow use of its processing facilities by third parties. This is a major decision, and the CEO has stated a desire to repurpose and reuse rather than replace so as to manage the risks and limit the costs.

The CIO has assigned the EA team to manage this project. The CIO has stated that although the overall objective is known, the EA team are expected to define the scope, a shared vision, and the requirements.

Refer to the scenario

You have been asked to recommend the best approach for architecture development to realize the CEO's change in direction for the company.

Based on the TOGAF standard which of the following is the best answer?

- A. The team should start its iteration cycles of architecture development by going through the architecture definition phases (B-D) with a baseline first approach.
This will support the change in direction as stated by the CEO. It will ensure that the change can be defined in a structured manner and address the requirements needed to realize the change.
- B. The team should start by defining the baseline Technology Architecture in order to assess the current infrastructure capacity and capability for the company.
Then the focus should be on transition planning and incremental architecture deployment. This will identify requirements to ensure that the projects are sequenced in an optimal way to realize the change.
- C. The team should start on architecture definition and operate multiple ADM phases concurrently to support this change in direction. Once understood, the team will identify the requirements, drivers, issues, and constraints for the change. You would include non-functional requirements in the architecture development to make sure that the target architecture meets its compliance and regulatory requirements.
- D. **The team first needs to understand the problem and define the structure of the change. It should start iteration cycles on a baseline first approach to architecture development, and then transition planning. This will identify the change needed to transition from the baseline to the target and can be used to work out in detail what the agreed vision is for the change.**

Answer: D

Explanation:

The scenario clearly states that:

The overall objective is known,

BUT the EA team is expected to define the scope, shared vision, and requirements, The company uses an iterative approach, The

CEO wants repurpose and reuse rather than replace, This is a major strategic shift (new markets, new products, new crop mix).

According to the TOGAF standard, when the problem must be understood, and scope, vision, and requirements are not yet defined, the correct starting point is Phase A: Architecture Vision, using an iteration cycle.

This is also consistent with the "baseline-first" approach recommended in the TOGAF Series Guides for situations where:

the business direction is known but high-level,

detailed impacts must be discovered,

and the organization wants to reuse existing capabilities rather than replace them.

Option B is the only answer that:

Begins by understanding the problem,

Defines the structure of the change,

Uses iteration cycles starting with a baseline-first approach,

Leads into transition planning,

Supports clarification of the shared vision and requirements,

Fits the CIO's instruction to "define the scope, shared vision, and requirements." This matches exactly what TOGAF prescribes in early-cycle Architecture Vision and initial iterations.

NEW QUESTION # 31

Please read this scenario prior to answering the question

You are working as the Chief Enterprise Architect within a law firm specializing in personal injury cases. Many of the firm's competitors have improved their litigation strategies, and efficiency by streamlining their processes using Artificial Intelligence (AI). The CIO has approved a Request for Architecture Work to examine the use of Machine Learning in defining a new AI-driven

litigation and finance process for the firm. This process would instruct the lawyers and analysts as to what tasks and portfolio they should work on. The key objectives are to increase task profitability, maximize staff utilization, and increase individual profitability. The CIO has emphasized that the architecture should enable the fast implementation of continuous Machine Learning. The solution will need to be constantly measured for delivered value and be quickly iterated to success.

Some of the partners have expressed concerns about letting the AI make the decisions, others about the risks associated with use of it for the type of service they deliver. The CIO wants to know if these concerns can be addressed, and how risks will be covered by a new architecture enabling AI and Machine Learning.

Refer to the scenario

You have been asked to respond to the CIO recommending an approach that would enable the development of an architecture that addresses the concerns of the CIO and the concerns of the partners.

Based on the TOGAF standard which of the following is the best answer?

- A. You recommend that all possible models be created for each candidate architecture that will enable the AI and Machine Learning solution. This ensures that all the necessary data and detail is addressed. A formal review should be held with the stakeholders to verify that their concerns have been properly addressed by the models. Agility will be considered during Phase G Implementation Governance.
- B. You recommend that a Communications Plan be created to address the key stakeholders, the most powerful and influential partners. This plan should include a report that summarizes the key features of the architecture reflecting their requirements. You will check with each key stakeholder that their concerns are being addressed. Risk mitigation and agility will be explicitly addressed as a component of the architecture being developed.
- C. You recommend creation of a set of business models that can be applied uniformly across all architecture projects. The stakeholders will be trained to understand the business models to ensure they can see that their concerns are being addressed. Risk will be addressed once the Security Architecture is developed, which will happen later to avoid slowing down the agility required by the CIO.
- D. You recommend that an analysis of the stakeholders is undertaken resulting in documenting the stakeholders and their concerns in a Stakeholder Map. The concerns and relevant views should then be defined for each group and recorded in the Architecture Vision document. The requirements will include risk mitigation through regular assessments. This will also allow a supervised agile implementation of the continuous Machine Learning.

Answer: D

NEW QUESTION # 32

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