

IREB Fundamentals Practice Exam (Sample)

Study Guide



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Questions

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- 1. Where should we document conflicts?**
 - A. System requirements specification**
 - B. Requirements issue log**
 - C. Entity relationship diagrams**
 - D. Use cases**
- 2. Quality of service requirements are a subset of which types of requirements?**
 - A. Functional requirements**
 - B. Non-functional requirements**
 - C. Behavioral requirements**
 - D. Performance requirements**
- 3. Which technique is most effective for a detailed gathering of requirements in a short timeframe?**
 - A. Closed-ended questionnaire**
 - B. Stakeholder interviews**
 - C. Prototyping**
 - D. Document review**
- 4. Which of the following activities usually spans the entire project?**
 - A. Brainstorming**
 - B. Enterprise analysis**
 - C. Requirement management**
 - D. Context diagramming**
- 5. "The system should have a fast response time" is an example of what type of requirement?**
 - A. Unbounded**
 - B. Irrational**
 - C. Over-specified**
 - D. Over-constrained**

- 6. How are requirements typically documented during system development?**
- A. By writing formal checks and balances in an external document**
 - B. By creating detailed algorithms only**
 - C. By gathering insights solely from developers**
 - D. By capturing input from all relevant stakeholders**
- 7. Which of the following is not an IREB validation quality criteria for specification content?**
- A. Verifiability**
 - B. Understandability**
 - C. Necessity**
 - D. Completeness of the document**
- 8. What is the main purpose of using sentence-templates in requirements writing?**
- A. To increase the length of the document**
 - B. To standardize requirement formulation**
 - C. To ensure creativity in wording**
 - D. To decrease redundancy in documentation**
- 9. What is the role of the actor in a use case diagram?**
- A. The systems that interact with each other**
 - B. The use cases that interact with other use cases**
 - C. The people that interact with the system**
 - D. The people and systems that interact**
- 10. What is the least suitable means to document details of a single use case?**
- A. State diagram**
 - B. Activity diagram**
 - C. Natural language**
 - D. Context diagram**

Answers

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1. B
2. B
3. A
4. C
5. A
6. D
7. B
8. B
9. D
10. D

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Explanations

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1. Where should we document conflicts?

A. System requirements specification

B. Requirements issue log

C. Entity relationship diagrams

D. Use cases

Documenting conflicts is best done in a requirements issue log. This log serves as a dedicated repository for tracking any disputes, disagreements, or inconsistencies that arise during the requirements gathering and analysis process. By logging conflicts in this manner, stakeholders can ensure that these issues are visible, prioritized, and addressed systematically. The requirements issue log helps maintain clarity and organization, facilitating communication between team members and ensuring that resolution efforts are documented for future reference. On the other hand, while the system requirements specification may contain the broader requirements of the project, it is not specifically designed to track conflicts. Entity relationship diagrams focus on the data structure and associations within a system, and use cases outline how users will interact with the system - neither of which are suitable for managing or documenting disputes related to requirements. Hence, the issue log is the most appropriate tool for this purpose.

2. Quality of service requirements are a subset of which types of requirements?

A. Functional requirements

B. Non-functional requirements

C. Behavioral requirements

D. Performance requirements

Quality of service requirements belong to non-functional requirements because they specify the criteria that can be used to judge the operation of a system rather than the specific behaviors or functionalities it provides. Non-functional requirements encompass a wide range of aspects, including performance, usability, reliability, and security, which are vital to the overall user experience and system performance but do not concern what the system does specifically. Quality of service focuses on how well a system performs its functions, covering aspects such as response time, availability, and scalability. These characteristics are essential for ensuring that the system meets user expectations and operational standards, making them a critical part of non-functional requirements. By understanding that quality of service is a subset of non-functional requirements, one recognizes the importance of these criteria in the overall system design and evaluation process.

3. Which technique is most effective for a detailed gathering of requirements in a short timeframe?

A. Closed-ended questionnaire

B. Stakeholder interviews

C. Prototyping

D. Document review

The technique that is most effective for a detailed gathering of requirements in a short timeframe is stakeholder interviews. This method allows for direct interaction with key stakeholders, enabling the requirement analyst to obtain in-depth information, clarify any ambiguities, and explore complex requirements through dialogue. In an interview setting, the analyst can ask follow-up questions and delve deeper into specific topics based on the responses received, which can lead to rich, nuanced insights that are often missed in more passive approaches like surveys or document reviews. Additionally, interviews can adapt in real-time based on the stakeholder's responses, making this method particularly efficient for capturing detailed requirements quickly. Other techniques, like closed-ended questionnaires, can limit responses and may not capture the depth of information needed in a complex environment. Prototyping can be effective for demonstrating ideas but may not be suitable for gathering initial requirements quickly. Document reviews provide valuable historical context but lack the interactive element needed for precise understanding and clarification.

4. Which of the following activities usually spans the entire project?

A. Brainstorming

B. Enterprise analysis

C. Requirement management

D. Context diagramming

Requirement management is indeed an activity that spans the entire project lifecycle. This process involves the continuous and systematic handling of requirements from their identification through their implementation and until project closure. It ensures that requirements remain relevant and aligned with stakeholders' needs as the project evolves, providing a structured approach to managing changes and maintaining traceability. Throughout the project, requirement management facilitates communication among team members, stakeholders, and other parties involved, ensuring that any changes are communicated effectively and recorded. This ongoing effort supports the integrity of the project, helping to avoid misunderstandings and ensuring that the final deliverable meets the established requirements. In contrast, brainstorming is typically a focused activity aimed at generating ideas for a specific problem or topic and usually occurs during the initial phases of a project. Enterprise analysis is more concerned with defining strategic business needs and may not be ongoing throughout the entire project lifecycle. Context diagramming is a technique used for visual representation of a system's boundaries and its interactions, which, while important, tends to be a one-time activity or limited to the phases of requirements elicitation and analysis rather than spanning the entire project.

5. "The system should have a fast response time" is an example of what type of requirement?

A. Unbounded

B. Irrational

C. Over-specified

D. Over-constrained

The statement "The system should have a fast response time" exemplifies an unbounded requirement. An unbounded requirement lacks a clear and quantifiable criterion for what constitutes "fast." Without specifying measurable parameters, such as response times in milliseconds or seconds under certain conditions, the requirement remains vague and open to interpretation. This ambiguity can lead to various interpretations by stakeholders, which may result in misaligned expectations during the development process. By not defining what "fast" means, the requirement fails to provide the necessary guidance for designers and developers to implement an accurate solution that meets the users' needs effectively. Clear and bounded requirements are crucial in systems engineering to ensure that end products meet stakeholder expectations and perform as intended.

6. How are requirements typically documented during system development?

A. By writing formal checks and balances in an external document

B. By creating detailed algorithms only

C. By gathering insights solely from developers

D. By capturing input from all relevant stakeholders

Capturing input from all relevant stakeholders during system development is essential for comprehensive requirements documentation. This approach ensures that diverse perspectives are considered, leading to a more robust understanding of what the system needs to achieve. Engaging stakeholders, including users, business analysts, developers, and project managers, allows for the identification of functional and non-functional requirements, potential constraints, and overall expectations. This collaborative gathering of insights helps to mitigate misunderstandings and aligns the project objectives with the actual needs of the users and the organization. It promotes better communication and increases the chances of project success by ensuring that the system developed truly meets the requirements of those who will use it. In contrast, the other options are limited in scope and effectiveness. Relying on external documents for checks and balances does not actively involve stakeholders in the requirements gathering process. Creating only detailed algorithms neglects the broader context of user needs and project objectives. Gathering insights solely from developers excludes vital input from other stakeholders, potentially leading to a product that does not fully address user requirements.

7. Which of the following is not an IREB validation quality criteria for specification content?

- A. Verifiability**
- B. Understandability**
- C. Necessity**
- D. Completeness of the document**

Understandability is not an IREB validation quality criteria for specification content. The IREB framework focuses on several key validation criteria to ensure that requirements specifications are effective and useful. Verifiability ensures that each requirement can be tested or measured against real-world scenarios, meaning that it can be proven true or false. Necessity pertains to whether each requirement is essential for the project goals, preventing unnecessary features that don't contribute to value. Completeness of the document evaluates whether all necessary requirements are included, ensuring no critical aspects are missing. While understandability is important for effective communication of the requirements, it is not classified as a validation criterion within the IREB framework. This distinction is significant, as the IREB focuses on the objective and measurable aspects of requirements validation rather than the subjective nature of how easily those requirements can be comprehended.

8. What is the main purpose of using sentence-templates in requirements writing?

- A. To increase the length of the document**
- B. To standardize requirement formulation**
- C. To ensure creativity in wording**
- D. To decrease redundancy in documentation**

The main purpose of using sentence-templates in requirements writing is to standardize requirement formulation. By providing a consistent structure for writing requirements, sentence-templates help ensure that all requirements are expressed in a uniform way, making them easier to understand and compare. This standardization enhances clarity among stakeholders, facilitates better communication, and reduces the risk of misinterpretation. Standardized templates help capture essential elements of a requirement systematically, thereby supporting better organization and management of requirements throughout the project lifecycle. When everyone uses the same templates, it improves efficiency and creates a shared understanding among team members, leading to a more coherent and structured documentation process. While there may be other benefits to using templates, such as potentially reducing redundancy, the primary goal focuses on achieving consistency and clarity in requirement writing.

9. What is the role of the actor in a use case diagram?

- A. The systems that interact with each other
- B. The use cases that interact with other use cases
- C. The people that interact with the system
- D. The people and systems that interact**

In a use case diagram, the role of the actor encompasses both people and systems that interact with the subject of the diagram, typically a system or application. An actor represents any entity that has a goal in interaction with that system, which can include end users (such as customers or administrators) and external systems that communicate with the system being modeled. By recognizing both human and system entities as actors, you can capture a more comprehensive view of the interactions and requirements necessary for the system's development. This holistic perspective is essential for understanding the various ways in which the system will be used and how it engages with external factors. Other options might limit the scope of actors to only people or only use cases, which would not fully represent the breadth of potential interactions and could lead to incomplete requirement gathering. A complete understanding of all interacting entities helps ensure that all user needs and system interactions are considered in the analysis and design phases.

10. What is the least suitable means to document details of a single use case?

- A. State diagram
- B. Activity diagram
- C. Natural language
- D. Context diagram**

The least suitable means to document the details of a single use case is a context diagram. A context diagram is primarily used to show the relationships between a system and external entities, illustrating how the system interacts with these entities at a high level. It focuses on the system's boundaries and external inputs and outputs, rather than providing in-depth details about specific use cases. In contrast, other options such as natural language are ideal for capturing the narrative of a use case, activity diagrams are effective in visualizing the flow of actions within the use case, and state diagrams can demonstrate the states that the system may enter as various events occur. Therefore, a context diagram does not adequately cover the specifics of a single use case, which requires more detailed documentation of the steps, decisions, and interactions involved.